



LUMA Lighting

LumCAT:	Luminaire: FL23-180W-P540-D1-GLC-WM
Report No: FL23-180W-P540-D1-GLC	Voltage(V): 0.000
Test No: JK lab 2016 0921	Current(A): 0.000
LampCAT: :	Power (W): 198.600
Lamp flux(lm)	PF: 0.000
Number of Lamps: 1	Ballast type:
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 26109.37
Lumens(lm)/Power(W): 131.47
Central intensity(cd): 9358.880
Maximum intensity(cd): 9389.940
Angle of maximum intensity: C=292.5 =4.0
Beam Angle(50% lmax): [C0__180]Left=55.9 Right=55.8
[C90__270]Left=58.1 Right=53.3
Field angle(10% lmax): [C0__180]Left=76.6 Right=77.1
[C90__270]Left=78.4 Right=73.1
Effective flux(lm): 25718.29
IES Nema Type : Type7H×7V

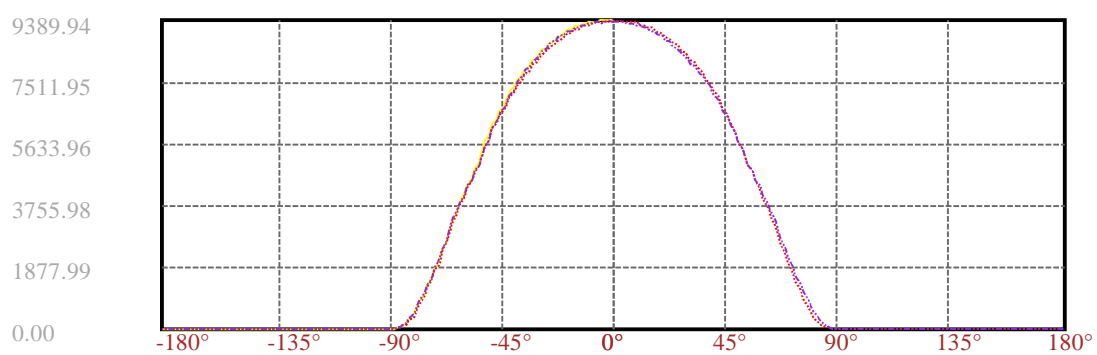
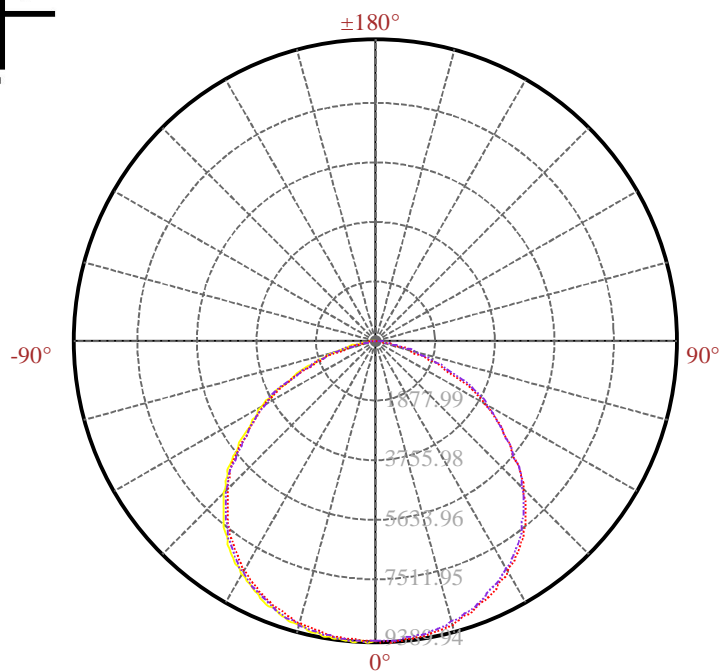
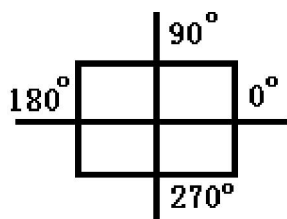
LUMA Lighting

Zonal flux distribution table 单位:lm

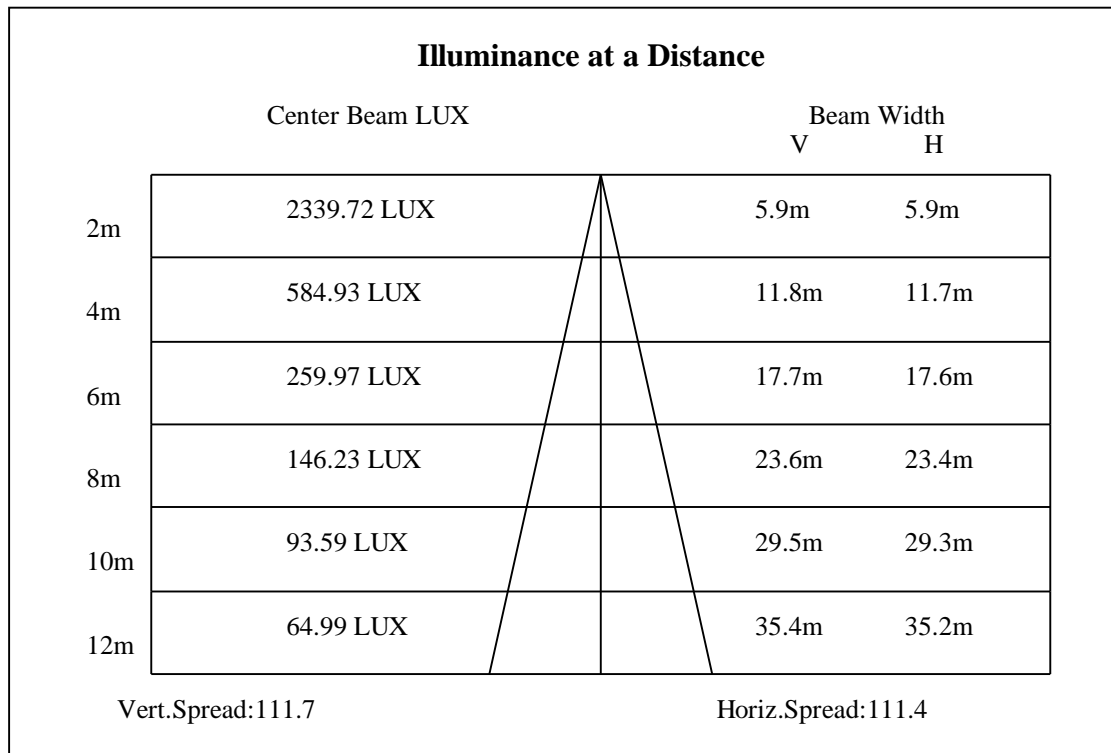
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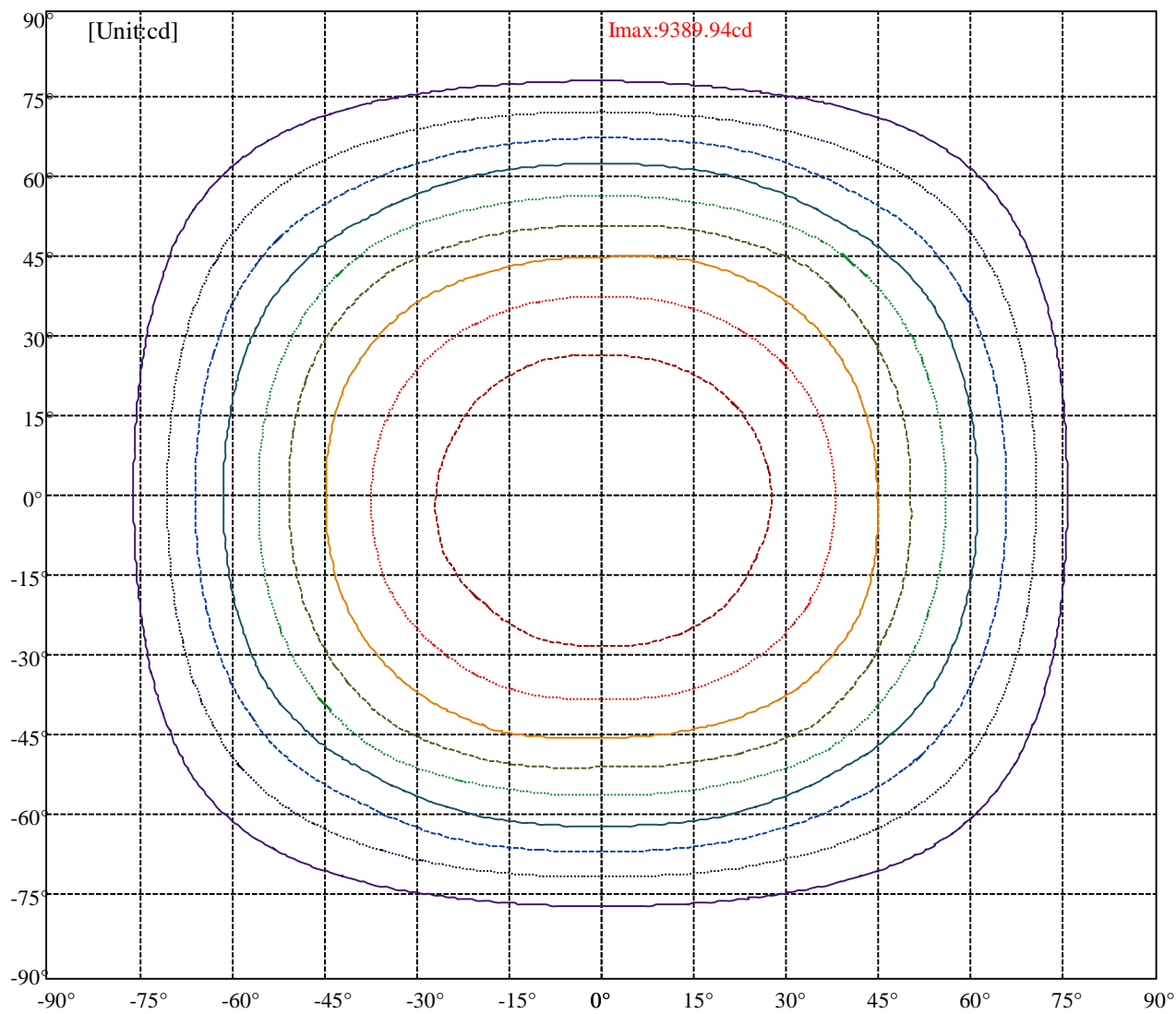
V \ H		H																			Total	
V		-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90	---	---
	-90	0.0	0.1	0.2	0.5	1.0	1.8	2.8	3.6	4.0	4.0	3.5	2.7	1.7	0.9	0.4	0.2	0.0	0.0		27.3	
	-80	0.0	0.3	1.6	5.0	10.7	18.4	26.4	32.7	36.2	36.2	32.7	26.4	18.4	10.6	4.7	1.4	0.3	0.0		262.2	
	-70	0.1	1.0	5.7	16.6	32.7	51.3	70.5	85.5	92.9	92.6	84.7	69.8	51.1	32.4	16.1	5.4	0.9	0.0		709.2	
	-60	0.1	2.3	12.2	32.3	57.9	87.6	117.3	137.4	146.7	146.5	137.1	117.4	87.9	58.3	31.9	11.6	2.1	0.1		1186.8	
	-50	0.2	4.0	19.7	48.4	85.5	128.1	163.2	188.3	198.7	197.9	186.2	163.0	128.8	85.6	48.5	19.2	3.7	0.2		1669.3	
	-40	0.3	5.9	26.8	63.6	109.1	156.1	194.5	222.5	236.1	236.2	222.6	195.6	158.0	109.3	63.5	26.5	5.5	0.2		2032.0	
	-30	0.3	7.5	32.7	74.3	125.3	174.7	215.7	245.2	260.8	261.3	246.5	217.2	177.0	126.0	74.2	32.5	7.1	0.3		2278.6	
	-20	0.4	8.7	36.8	81.3	135.4	187.1	229.5	259.3	275.3	276.2	260.4	229.9	188.3	136.4	81.0	36.5	8.4	0.3		2431.5	
	-10	0.4	9.3	38.9	84.5	139.8	192.4	235.6	266.1	281.6	282.1	266.6	236.2	193.6	140.3	84.1	38.5	9.0	0.4		2499.5	
	0	0.4	9.3	38.9	84.5	139.9	191.7	234.3	264.7	280.6	281.3	266.1	236.1	193.3	139.6	84.0	38.5	9.0	0.4		2492.5	
	10	0.4	8.7	36.9	81.2	135.6	185.5	227.0	257.2	273.4	273.4	258.2	228.6	186.9	134.5	80.7	36.4	8.4	0.3		2413.4	
	20	0.3	7.5	32.8	74.0	125.6	173.5	213.1	242.3	257.3	257.3	242.7	214.0	173.8	123.8	73.9	32.3	7.2	0.3		2251.9	
	30	0.3	5.9	27.0	63.3	108.5	154.8	191.4	218.2	232.1	232.2	219.0	192.5	154.6	107.7	62.9	26.6	5.6	0.2		2002.9	
	40	0.2	4.1	19.8	48.9	85.2	126.4	159.4	182.4	194.5	195.6	185.1	160.7	126.0	84.4	48.0	19.5	3.8	0.2		1644.2	
	50	0.1	2.4	12.5	32.8	58.9	87.9	116.4	135.6	145.4	145.7	136.1	116.2	86.9	57.8	32.2	12.0	2.1	0.1		1181.2	
	60	0.1	1.1	6.1	17.3	33.9	52.5	70.7	85.3	93.3	93.5	85.8	70.8	51.4	32.8	16.6	5.5	0.9	0.0		717.6	
	70	0.0	0.3	1.8	5.6	11.9	20.0	28.3	34.9	38.5	38.2	34.1	27.3	19.1	11.1	4.9	1.5	0.3	0.0		278.0	
	80	0.0	0.1	0.2	0.6	1.2	2.1	3.2	4.2	4.7	4.7	4.0	3.0	1.8	0.9	0.4	0.2	0.0	0.0		31.3	
	90																					
Total	---	3.6	78.7	350.7	814.5	1398.0	1992.0	2499.4	2865.2	3052.2	3055.0	2871.4	2507.2	1998.7	1392.6	808.0	344.3	74.5	3.2		26109.4	

Equipment: GMS2200
Temperature(°C): 25Date:
Humidity(%): 60%Operator:
Distance(m): 13.72



C292.5(Max): ————
C0/C180:
C90/C270: - - - - -





(10% Imax) 938.487

(20% Imax) 1876.97

(30% Imax) 2815.46

(40% Imax) 3753.95

(50% Imax) 4692.44

(60% Imax) 5630.92

(70% Imax) 6569.41

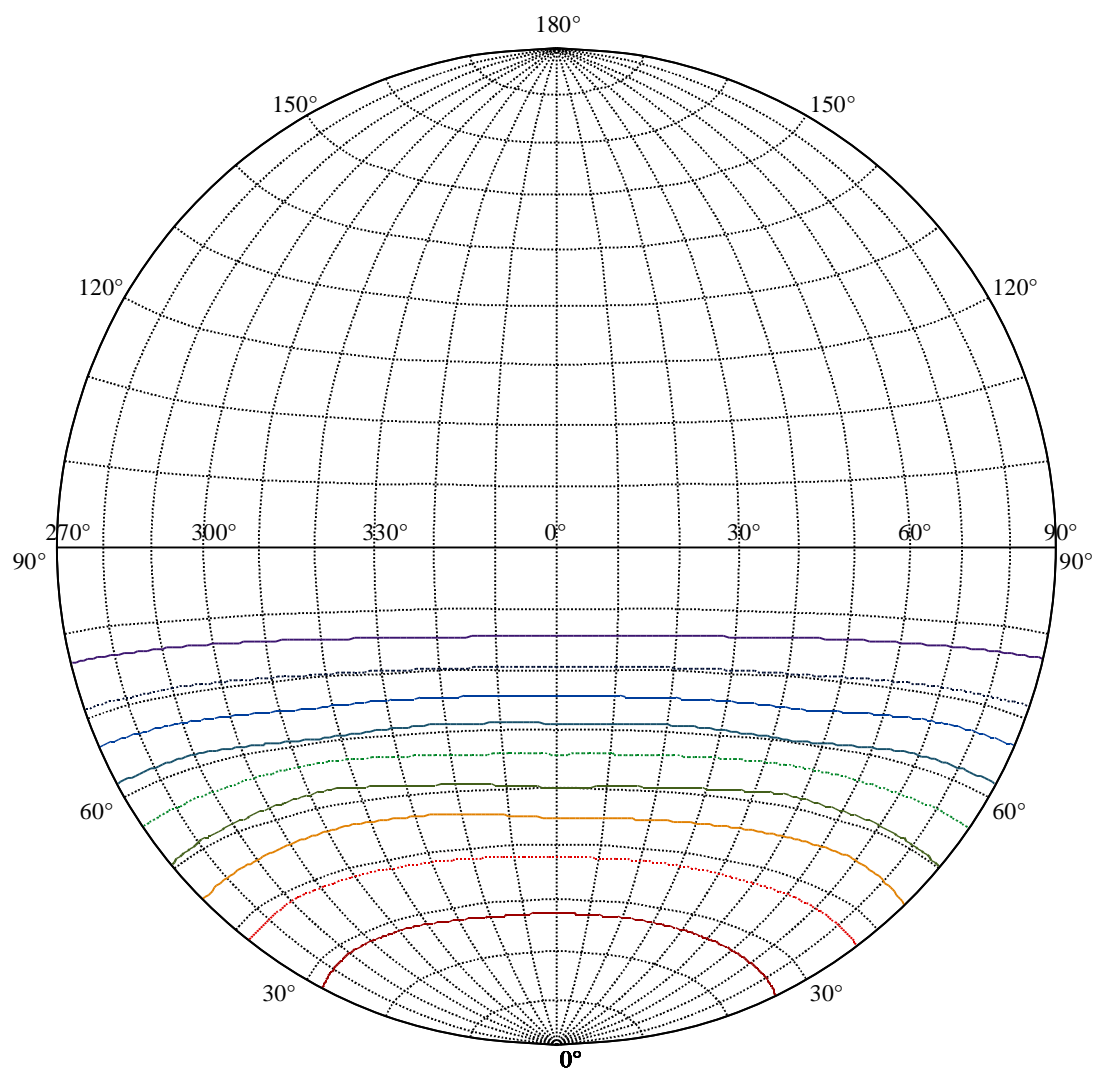
(80% Imax) 7507.9

(90% Imax) 8446.38

Equipment: GMS2200
Temperature(°C): 25

Date:
Humidity(%): 60%

Operator:
Distance(m): 13.72

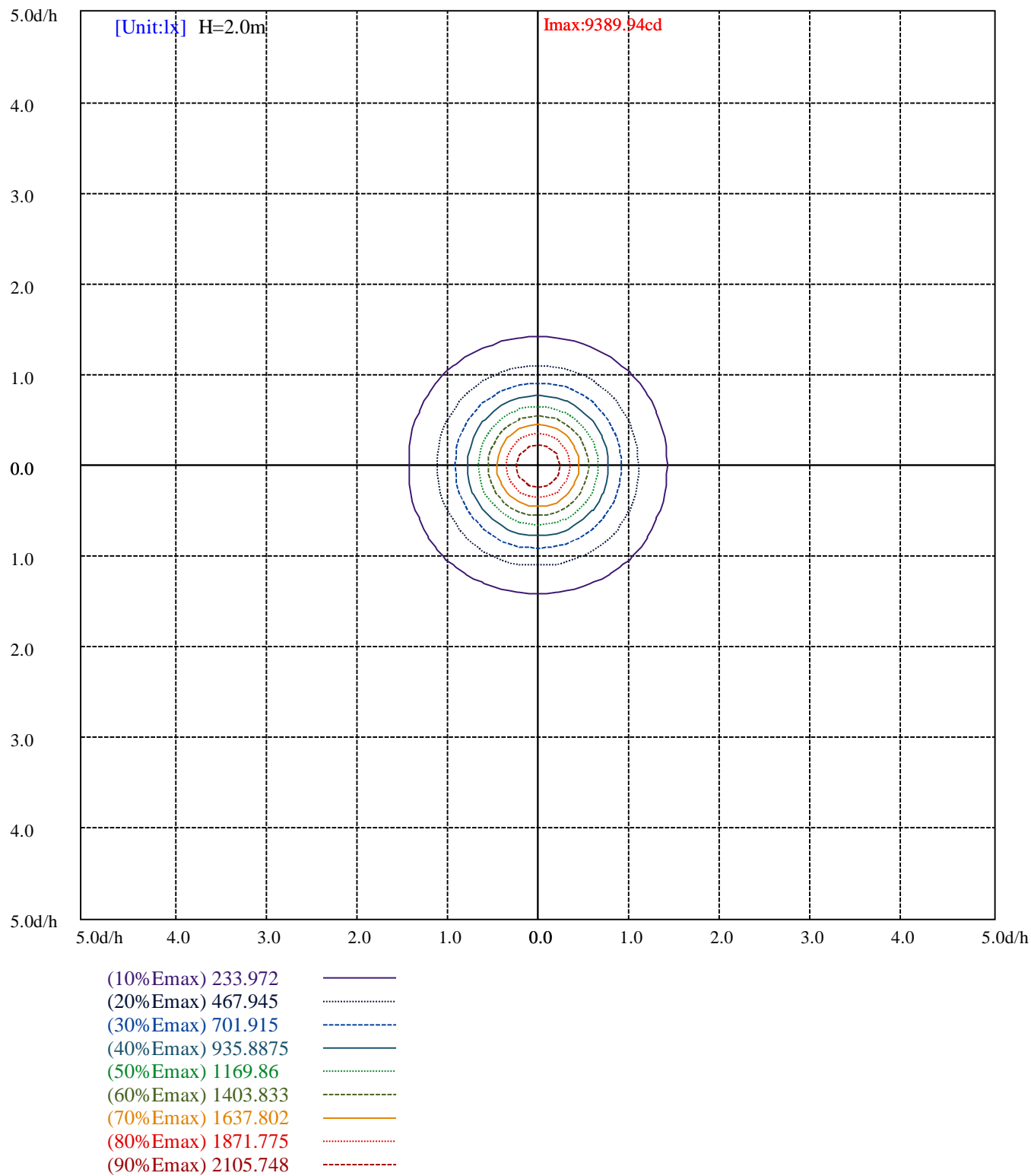


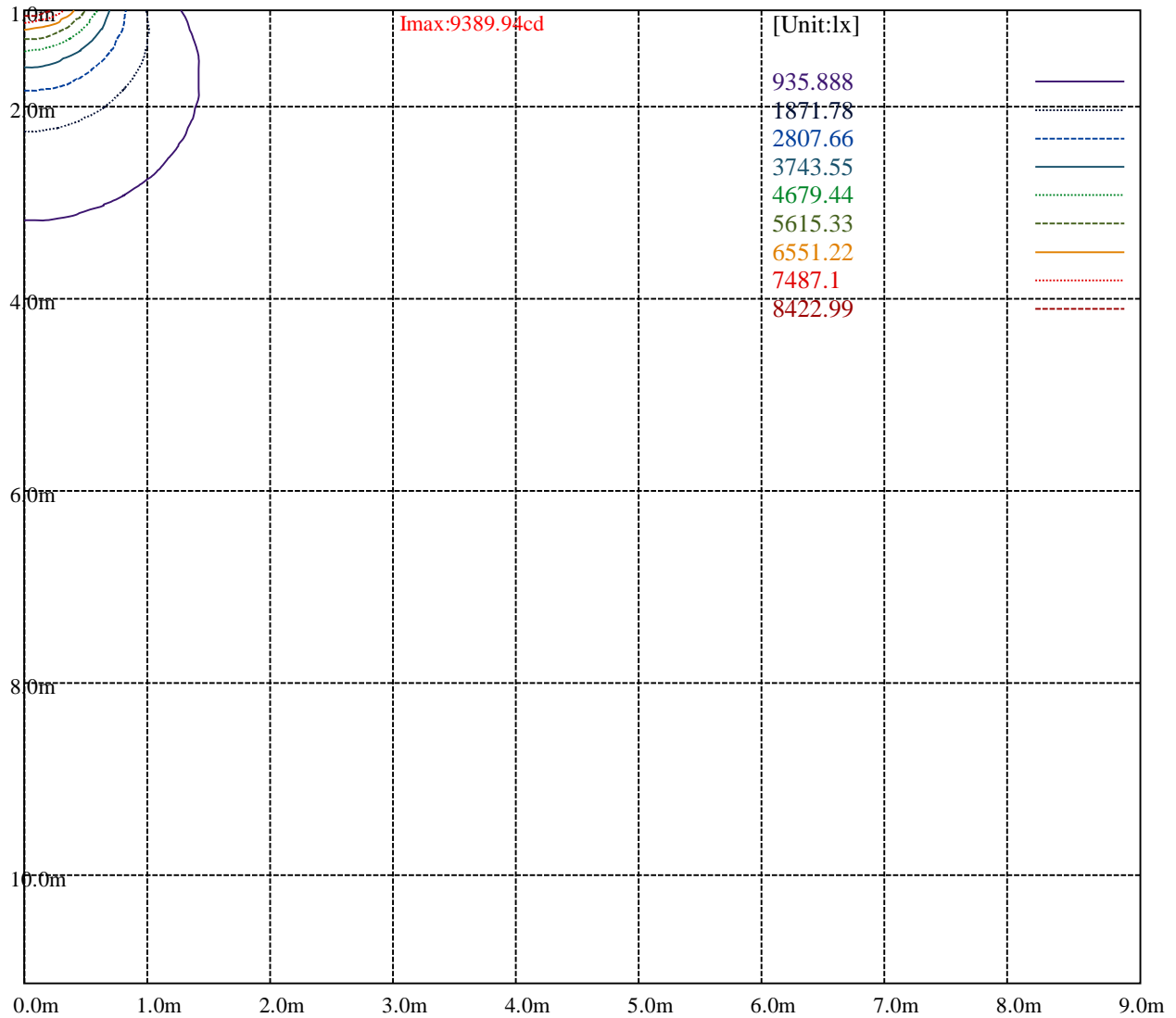
House

Road

Imax:9389.94cd

(10% Imax)	938.897	—
(20% Imax)	1877.79	---
(30% Imax)	2816.69	- - -
(40% Imax)	3755.59	—
(50% Imax)	4694.48	---
(60% Imax)	5633.38	- - -
(70% Imax)	6572.28	—
(80% Imax)	7511.18	---
(90% Imax)	8450.07	- - -





Luminance Table

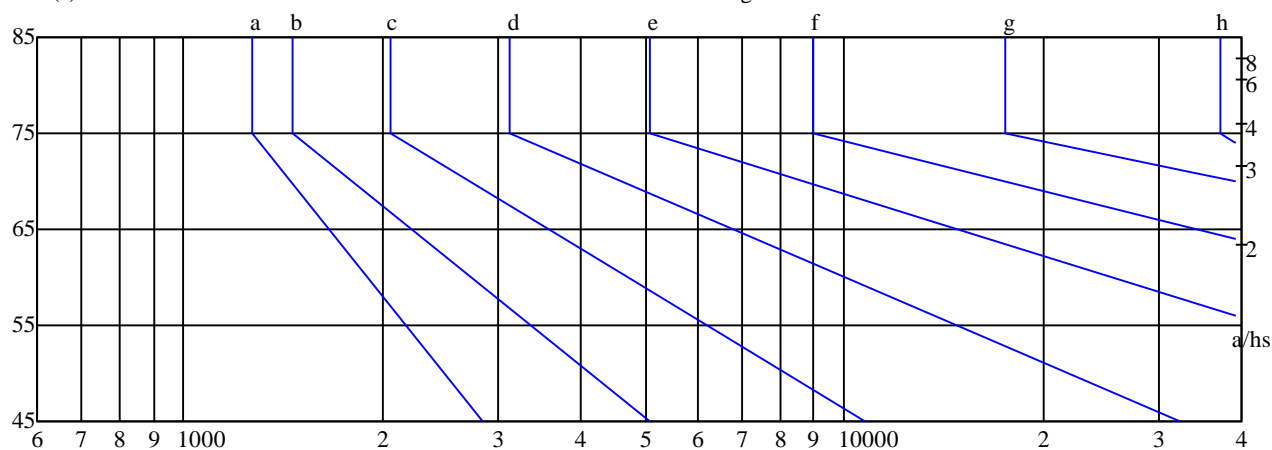
	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

Glare Table

Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

(°)

Luminance Limiting Curve



LUMA Lighting

Intensity data(cd)									Page: 10 Total:16		
C/ (°)	0.0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0		
0.0	9358.88	9372.65	9354.81	9384.87	9349.30	9341.95	9346.80	9330.24	9322.14		
22.5	9358.88	9369.33	9340.69	9352.48	9362.23	9345.82	9332.06	9315.73	9311.47		
45.0	9358.88	9344.58	9338.94	9341.21	9346.69	9325.17	9316.38	9300.46	9270.93		
67.5	9358.88	9351.12	9358.96	9341.56	9347.00	9332.33	9320.58	9305.43	9291.91		
90.0	9358.88	9345.53	9333.52	9321.66	9342.34	9283.17	9290.58	9261.04	9255.58		
112.5	9358.88	9374.99	9355.21	9386.66	9370.35	9328.63	9332.53	9307.80	9311.49		
135.0	9358.88	9339.92	9346.59	9323.26	9291.44	9291.76	9318.91	9265.42	9251.07		
157.5	9358.88	9348.49	9339.84	9334.69	9293.58	9308.40	9288.80	9276.63	9254.11		
180.0	9358.88	9348.35	9329.34	9348.70	9312.20	9295.09	9305.99	9309.63	9294.54		
202.5	9358.88	9380.11	9358.98	9369.93	9348.84	9341.80	9328.46	9320.27	9290.22		
225.0	9358.88	9322.32	9326.13	9326.10	9334.16	9304.22	9301.47	9310.13	9288.89		
247.5	9358.88	9353.88	9371.96	9355.56	9332.16	9353.37	9349.00	9332.04	9322.42		
270.0	9358.88	9344.93	9378.83	9342.95	9346.28	9348.92	9323.31	9345.38	9317.32		
292.5	9358.88	9375.18	9371.68	9364.22	9389.94	9383.92	9360.57	9354.17	9336.66		
315.0	9358.88	9368.75	9355.60	9348.69	9343.14	9346.54	9336.34	9331.74	9310.99		
337.5	9358.88	9347.18	9351.70	9329.83	9328.31	9307.10	9328.48	9329.18	9300.15		
360.0	9358.88	9372.65	9354.81	9384.87	9349.30	9341.95	9346.80	9330.24	9322.14		
C/ (°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0		
0.0	9302.60	9279.52	9237.51	9218.73	9184.95	9169.90	9133.94	9087.01	9044.52		
22.5	9278.37	9269.41	9231.09	9211.76	9161.77	9145.07	9106.62	9067.91	9018.53		
45.0	9252.51	9238.05	9209.48	9187.93	9170.22	9121.43	9076.31	9037.79	9006.28		
67.5	9269.85	9212.83	9200.63	9170.81	9137.47	9107.05	9092.99	9038.01	9004.22		
90.0	9234.68	9251.49	9189.94	9166.33	9148.23	9097.02	9060.76	9017.77	8984.32		
112.5	9275.96	9251.33	9210.91	9182.27	9155.63	9116.05	9068.98	9042.94	9000.23		
135.0	9223.56	9199.71	9191.71	9156.88	9138.19	9075.37	9070.17	9022.68	8976.59		
157.5	9260.35	9203.07	9176.46	9175.24	9112.40	9099.01	9031.99	9000.20	8974.17		
180.0	9264.20	9243.37	9223.71	9186.98	9163.36	9119.16	9099.60	9074.83	9005.26		
202.5	9286.07	9270.01	9229.39	9220.05	9183.77	9149.28	9111.64	9080.92	9046.62		
225.0	9254.65	9235.52	9210.99	9182.35	9183.22	9151.08	9119.19	9081.37	9028.95		
247.5	9308.33	9314.85	9264.93	9213.09	9201.60	9156.71	9133.82	9107.68	9064.14		
270.0	9273.58	9266.14	9246.25	9216.47	9206.14	9166.89	9133.95	9070.92	9067.77		
292.5	9342.90	9327.23	9279.12	9265.13	9239.55	9207.29	9193.52	9153.02	9105.70		
315.0	9304.25	9273.93	9242.86	9210.69	9201.31	9185.81	9155.05	9129.07	9072.40		
337.5	9283.06	9271.55	9258.45	9214.27	9198.86	9172.85	9120.80	9066.67	9030.88		
360.0	9302.60	9279.52	9237.51	9218.73	9184.95	9169.90	9133.94	9087.01	9044.52		
C/ (°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0		
0.0	8989.75	8966.24	8911.61	8852.62	8799.04	8748.11	8689.85	8640.30	8558.06		
22.5	8992.52	8938.79	8881.59	8840.39	8790.09	8729.59	8661.87	8597.74	8534.40		
45.0	8958.54	8902.44	8852.28	8819.66	8770.95	8694.65	8648.77	8567.86	8497.74		
67.5	8947.93	8917.03	8873.08	8818.23	8764.84	8708.55	8635.84	8571.99	8486.81		
90.0	8942.24	8898.74	8840.92	8776.61	8729.12	8650.03	8592.07	8519.01	8450.81		
112.5	8957.94	8913.37	8858.39	8809.27	8763.27	8700.20	8635.12	8577.94	8507.96		
135.0	8937.75	8873.28	8835.93	8784.57	8696.01	8656.42	8611.23	8547.75	8490.85		
157.5	8925.97	8860.22	8806.76	8757.37	8700.14	8657.33	8583.32	8540.03	8472.10		
180.0	8963.28	8908.27	8876.72	8822.56	8745.11	8693.94	8629.75	8565.85	8492.01		
202.5	8996.68	8944.60	8904.58	8845.81	8796.00	8756.34	8700.22	8632.78	8552.62		
225.0	8975.62	8937.18	8883.18	8840.91	8794.29	8735.90	8682.57	8621.92	8540.68		
247.5	9037.48	8986.73	8938.61	8895.61	8833.36	8776.79	8719.32	8659.04	8598.43		
270.0	9029.93	8989.75	8943.27	8899.34	8838.03	8773.92	8720.27	8674.27	8609.14		
292.5	9084.97	9022.17	8984.81	8917.73	8872.83	8813.42	8751.99	8701.19	8637.42		
315.0	9042.45	9007.97	8948.73	8884.71	8846.54	8782.56	8729.69	8657.18	8591.36		
337.5	9010.17	8973.08	8880.98	8837.21	8785.55	8732.93	8666.47	8599.16	8564.22		
360.0	8989.75	8966.24	8911.61	8852.62	8799.04	8748.11	8689.85	8640.30	8558.06		

Equipment: GMS2200
Temperature(°C): 25

Date:
Humidity(%): 60%

Operator:
Distance(m): 13.72

LUMA Lighting

Intensity data(cd)										Page: 11 Total:16	
C/ (°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0		
0.0	8481.17	8421.05	8345.72	8249.10	8184.05	8102.47	8012.98	7914.85	7797.38		
22.5	8471.67	8381.80	8308.82	8231.87	8157.10	8064.25	8000.13	7918.31	7817.11		
45.0	8444.50	8360.13	8281.13	8183.35	8108.70	8029.25	7927.60	7841.35	7745.76		
67.5	8412.38	8361.84	8277.97	8194.52	8110.24	8031.03	7925.06	7833.97	7747.51		
90.0	8380.81	8304.63	8225.29	8158.33	8070.95	7988.01	7905.13	7813.74	7712.10		
112.5	8427.55	8338.90	8261.11	8197.15	8105.71	8046.03	7945.04	7861.79	7734.43		
135.0	8401.87	8321.75	8236.39	8170.58	8071.01	7985.46	7898.52	7817.34	7724.90		
157.5	8393.16	8315.69	8246.70	8162.10	8097.36	8009.91	7917.03	7824.05	7723.22		
180.0	8438.60	8355.96	8293.04	8209.21	8124.71	8028.06	7941.43	7840.55	7745.27		
202.5	8492.53	8415.97	8338.17	8265.85	8186.76	8097.07	8028.96	7949.57	7838.42		
225.0	8464.02	8407.95	8325.54	8247.28	8162.43	8075.50	8007.44	7921.23	7832.52		
247.5	8537.47	8478.38	8379.54	8301.10	8216.48	8148.91	8066.92	7954.91	7880.59		
270.0	8528.89	8445.93	8374.79	8288.36	8203.02	8121.15	8030.33	7943.16	7847.04		
292.5	8540.30	8495.14	8408.61	8335.21	8236.93	8182.90	8087.38	7994.59	7797.13		
315.0	8523.20	8472.55	8385.73	8316.49	8249.38	8163.65	8091.55	7991.22	7896.50		
337.5	8487.05	8400.60	8318.31	8258.94	8170.43	8114.07	8004.22	7925.02	7834.90		
360.0	8481.17	8421.05	8345.72	8249.10	8184.05	8102.47	8012.98	7914.85	7797.38		
C/ (°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0		
0.0	7708.97	7603.22	7492.54	7369.98	7258.55	7115.88	6976.27	6820.97	6671.35		
22.5	7710.87	7604.65	7495.19	7371.24	7248.73	7123.21	6990.32	6870.14	6727.38		
45.0	7669.10	7549.25	7463.00	7358.90	7251.23	7132.84	7005.57	6902.50	6772.98		
67.5	7652.78	7545.93	7448.41	7339.86	7233.90	7122.23	7014.50	6903.00	6775.05		
90.0	7615.32	7510.38	7391.20	7245.58	7124.54	7009.13	6882.72	6740.08	6605.29		
112.5	7650.11	7536.32	7424.23	7295.03	7181.42	7057.05	6912.03	6786.29	6639.28		
135.0	7634.46	7536.40	7444.39	7334.70	7201.67	7100.07	6988.64	6878.34	6755.70		
157.5	7635.84	7534.08	7428.32	7309.20	7215.31	7099.29	6985.10	6869.59	6745.24		
180.0	7648.15	7547.06	7426.73	7294.79	7189.16	7059.92	6919.80	6783.05	6661.08		
202.5	7733.76	7611.05	7513.17	7387.28	7265.42	7147.10	7012.92	6882.87	6745.51		
225.0	7722.98	7613.44	7528.98	7412.43	7290.14	7207.95	7075.26	6940.09	6828.25		
247.5	7780.99	7681.51	7583.64	7473.33	7356.08	7255.24	7124.82	6996.65	6887.38		
270.0	7723.96	7632.59	7503.22	7361.44	7254.00	7115.14	6972.97	6839.82	6712.45		
292.5	7804.24	7687.10	7579.98	7462.83	7333.24	7203.35	7069.13	6923.70	6790.21		
315.0	7787.46	7675.73	7565.16	7467.46	7353.50	7258.42	7142.67	7030.68	6905.69		
337.5	7741.74	7645.44	7546.51	7449.90	7358.41	7243.70	7139.40	6999.18	6870.96		
360.0	7708.97	7603.22	7492.54	7369.98	7258.55	7115.88	6976.27	6820.97	6671.35		
C/ (°)	45.0	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0		
0.0	6528.22	6382.16	6223.85	6032.69	5839.62	5647.23	5465.55	5281.81	5130.37		
22.5	6588.59	6453.46	6307.55	6153.62	5985.80	5799.07	5601.53	5395.86	5206.20		
45.0	6638.45	6503.55	6359.51	6223.92	6078.27	5944.59	5791.61	5635.77	5460.52		
67.5	6664.23	6513.08	6361.41	6205.01	6030.50	5862.41	5653.16	5443.24	5238.70		
90.0	6469.12	6341.89	6193.36	6011.43	5848.22	5652.19	5464.42	5293.06	5117.54		
112.5	6517.08	6382.57	6237.40	6090.68	5934.28	5766.95	5578.07	5385.80	5197.27		
135.0	6628.01	6481.95	6366.47	6212.93	6065.28	5926.20	5784.06	5620.44	5449.45		
157.5	6619.38	6493.64	6366.30	6226.91	6067.20	5910.47	5737.81	5550.98	5338.97		
180.0	6526.95	6389.29	6239.21	6097.15	5923.01	5741.14	5553.75	5365.55	5169.39		
202.5	6620.81	6469.80	6313.10	6185.35	6045.46	5890.51	5708.41	5524.08	5326.86		
225.0	6691.10	6564.30	6425.69	6289.09	6162.12	6011.50	5852.75	5682.95	5519.02		
247.5	6760.99	6611.53	6480.15	6330.40	6152.16	5972.08	5788.90	5572.17	5342.79		
270.0	6577.20	6426.75	6287.15	6114.40	5929.98	5735.93	5536.30	5331.25	5161.96		
292.5	6650.85	6517.52	6376.56	6218.63	6064.13	5891.02	5705.29	5500.84	5299.96		
315.0	6792.01	6652.03	6514.71	6367.53	6221.69	6080.02	5934.53	5767.45	5584.68		
337.5	6756.01	6616.10	6467.87	6286.55	6112.20	5918.45	5703.41	5479.92	5263.52		
360.0	6528.22	6382.16	6223.85	6032.69	5839.62	5647.23	5465.55	5281.81	5130.37		

LUMA Lighting

Intensity data(cd)

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C/ (°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	4975.39	4820.87	4670.45	4501.94	4284.08	4096.30	3928.62	3759.94	3587.66
22.5	5029.05	4875.10	4722.95	4569.51	4386.56	4205.52	3992.80	3793.20	3604.77
45.0	5258.07	5041.18	4812.74	4591.12	4331.43	4075.26	3820.82	3602.11	3395.40
67.5	5047.15	4862.83	4685.90	4513.59	4358.33	4199.44	4038.21	3867.43	3680.94
90.0	4960.98	4814.68	4649.13	4502.60	4348.14	4193.65	4026.66	3867.69	3700.69
112.5	5004.51	4834.70	4669.58	4512.19	4351.76	4194.38	4035.57	3864.82	3689.15
135.0	5270.77	5076.31	4840.75	4607.94	4375.75	4143.90	3900.88	3669.23	3464.26
157.5	5128.37	4922.67	4717.98	4519.94	4328.52	4160.60	3993.33	3825.42	3646.35
180.0	4972.31	4789.62	4620.93	4469.10	4304.17	4151.77	3983.71	3809.94	3632.44
202.5	5125.40	4921.96	4731.45	4548.69	4366.20	4197.65	4027.58	3853.94	3678.67
225.0	5348.20	5148.01	4922.61	4687.90	4425.18	4181.33	3908.52	3653.01	3421.11
247.5	5125.22	4912.44	4715.38	4531.46	4377.50	4211.03	4051.51	3886.12	3704.83
270.0	4982.14	4828.48	4670.72	4509.46	4353.83	4189.76	4028.27	3860.15	3692.42
292.5	5091.72	4891.31	4721.54	4551.86	4388.44	4228.45	4063.20	3870.74	3691.09
315.0	5385.96	5179.36	4941.59	4698.69	4432.00	4158.27	3889.90	3660.30	3448.97
337.5	5092.98	4908.54	4731.92	4564.12	4409.36	4224.84	4013.42	3822.60	3639.61
360.0	4975.39	4820.87	4670.45	4501.94	4284.08	4096.30	3928.62	3759.94	3587.66

C/ (°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	3391.90	3161.56	2951.73	2751.19	2550.43	2338.08	2157.69	1978.03	1777.33
22.5	3401.23	3184.02	2970.03	2738.01	2546.11	2369.97	2190.80	1989.65	1811.03
45.0	3207.23	3026.60	2860.23	2669.82	2480.71	2315.08	2157.36	1986.42	1795.07
67.5	3502.09	3301.37	3106.76	2900.55	2715.64	2526.59	2314.17	2108.75	1900.16
90.0	3533.06	3339.20	3143.51	2928.46	2719.05	2517.92	2321.38	2133.33	1941.39
112.5	3492.41	3273.56	3047.25	2837.56	2659.93	2484.08	2303.19	2123.55	1942.73
135.0	3259.44	3072.70	2888.62	2705.91	2548.09	2385.72	2220.12	2040.39	1860.07
157.5	3446.36	3255.95	3023.67	2794.53	2607.18	2427.00	2240.62	1990.85	1798.50
180.0	3420.81	3193.52	2990.92	2810.13	2612.49	2366.96	2124.80	1950.69	1779.40
202.5	3475.26	3246.11	2996.40	2758.11	2565.63	2389.62	2210.42	1987.57	1797.41
225.0	3201.95	3005.44	2820.09	2651.56	2490.23	2328.18	2165.16	1987.23	1807.46
247.5	3511.49	3312.67	3104.48	2894.16	2703.42	2502.25	2290.44	2081.64	1879.01
270.0	3534.37	3336.99	3129.20	2905.74	2686.07	2462.56	2265.37	2073.80	1881.91
292.5	3477.69	3267.44	3046.45	2842.21	2652.59	2450.20	2249.57	2060.10	1873.57
315.0	3253.01	3061.25	2878.38	2692.69	2503.37	2335.33	2166.15	1984.87	1790.77
337.5	3447.76	3242.79	3020.14	2779.00	2578.90	2381.55	2180.06	1962.83	1773.05
360.0	3391.90	3161.56	2951.73	2751.19	2550.43	2338.08	2157.69	1978.03	1777.33

C/ (°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	1544.34	1374.03	1205.67	1037.89	864.04	718.81	574.09	443.64	328.83
22.5	1610.05	1383.55	1203.46	1046.96	889.92	750.19	610.76	471.33	348.35
45.0	1611.14	1446.77	1287.43	1118.62	968.60	828.33	688.12	547.91	416.88
67.5	1705.33	1515.66	1351.92	1195.85	1029.95	875.64	752.71	629.79	500.92
90.0	1769.53	1597.67	1425.90	1260.79	1103.02	954.17	805.63	655.91	521.99
112.5	1763.59	1584.45	1405.36	1230.55	1065.26	914.77	777.86	647.73	515.13
135.0	1687.53	1514.98	1342.38	1158.41	1007.12	865.01	722.37	572.80	460.40
157.5	1606.15	1414.40	1245.23	1090.70	915.95	781.55	657.19	520.14	413.99
180.0	1608.10	1436.66	1255.54	1061.81	917.37	781.09	613.24	490.83	374.65
202.5	1607.24	1417.11	1233.85	1069.45	883.12	751.43	627.20	489.37	382.12
225.0	1627.69	1447.94	1272.89	1079.96	931.59	793.50	656.57	513.51	400.10
247.5	1693.60	1508.19	1322.86	1148.91	977.53	835.79	710.98	594.81	469.16
270.0	1693.59	1516.25	1347.65	1174.25	1022.65	872.82	729.64	586.57	460.13
292.5	1679.70	1492.94	1328.22	1166.12	986.97	849.89	716.03	582.20	449.98
315.0	1602.98	1434.20	1249.60	1079.83	937.55	796.85	656.15	515.44	396.05
337.5	1561.68	1343.45	1171.83	1010.96	848.72	715.12	582.42	466.17	355.75
360.0	1544.34	1374.03	1205.67	1037.89	864.04	718.81	574.09	443.64	328.83

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Intensity data(cd) Page: 13 Total:16

C/ (°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	247.72	182.57	123.28	84.69	55.96	36.60	14.30	5.65	2.01
22.5	257.27	188.43	130.85	83.76	55.86	35.51	17.23	5.38	2.25
45.0	313.85	218.67	146.88	93.00	54.27	30.49	15.97	5.27	2.40
67.5	391.66	284.88	195.91	124.54	71.11	34.90	16.37	5.82	2.05
90.0	412.27	315.94	221.56	145.71	88.84	47.25	26.42	9.87	1.78
112.5	403.39	298.66	210.92	135.77	81.27	41.16	20.51	8.18	2.51
135.0	353.85	262.75	179.38	119.65	70.38	36.55	19.36	8.81	4.46
157.5	309.78	227.10	161.10	102.46	65.01	41.64	22.46	9.46	6.59
180.0	279.63	207.37	144.38	93.46	59.81	38.39	20.37	9.47	5.70
202.5	282.84	204.88	146.06	92.60	55.21	34.96	20.81	8.64	5.94
225.0	303.89	216.30	146.58	97.24	59.52	31.78	17.23	8.37	3.85
247.5	361.00	256.51	177.45	115.53	69.15	39.82	21.13	8.39	2.63
270.0	353.37	262.57	182.87	119.79	72.48	41.97	24.07	7.50	1.86
292.5	344.79	254.78	179.74	109.87	62.36	31.77	15.35	4.57	1.86
315.0	294.80	208.65	139.95	88.42	49.99	27.12	14.14	5.61	2.16
337.5	254.43	183.70	124.49	79.88	53.68	34.78	16.83	5.14	2.10
360.0	247.72	182.57	123.28	84.69	55.96	36.60	14.30	5.65	2.01
C/ (°)	90.0	91.0	92.0	93.0	94.0	95.0	96.0	97.0	98.0
0.0	1.21	1.16	1.16	1.16	1.18	1.21	1.24	1.61	1.61
22.5	1.27	1.21	1.21	1.21	1.21	1.24	1.27	1.61	1.62
45.0	1.39	1.37	1.31	1.31	1.31	1.31	1.69	1.69	1.72
67.5	1.57	1.54	1.51	1.51	1.72	1.70	1.70	1.80	2.02
90.0	1.80	1.80	1.80	1.89	1.99	2.15	2.37	2.59	2.86
112.5	1.51	1.49	1.52	1.57	1.65	1.79	1.98	2.14	2.33
135.0	1.40	1.38	1.43	1.49	1.60	1.78	1.92	2.11	2.30
157.5	1.16	1.13	1.10	1.16	1.21	1.34	1.48	1.62	1.80
180.0	1.41	1.02	1.02	1.05	1.10	1.21	1.32	1.46	1.64
202.5	1.16	1.13	1.11	1.16	1.24	1.38	1.51	1.70	1.86
225.0	1.29	1.26	1.31	1.37	1.45	1.58	1.74	1.88	2.07
247.5	1.56	1.54	1.62	1.75	1.81	1.94	2.13	2.37	2.62
270.0	1.59	1.51	1.51	1.51	1.69	1.69	1.69	1.94	2.04
292.5	1.52	1.54	1.52	1.52	1.54	1.59	1.70	2.00	2.11
315.0	1.42	1.40	1.40	1.40	1.43	1.70	1.73	1.70	2.05
337.5	1.33	1.24	1.24	1.24	1.24	1.24	1.68	1.69	1.75
360.0	1.21	1.16	1.16	1.16	1.18	1.21	1.24	1.61	1.61
C/ (°)	99.0	100.0	101.0	102.0	103.0	104.0	105.0	106.0	107.0
0.0	1.88	2.04	2.15	2.45	2.61	2.93	3.01	3.25	3.60
22.5	1.83	2.02	2.15	2.32	2.45	2.83	3.01	3.31	3.58
45.0	1.98	2.04	2.14	2.38	2.62	2.94	3.24	3.48	3.77
67.5	2.18	2.42	2.68	2.96	3.25	3.63	3.80	4.09	4.36
90.0	3.16	3.45	3.77	4.14	4.50	4.88	5.25	5.63	5.95
112.5	2.57	2.82	3.09	3.41	3.72	4.07	4.39	4.73	4.98
135.0	2.55	2.78	3.00	3.24	3.52	3.82	4.19	4.60	5.01
157.5	1.97	2.18	2.37	2.50	2.69	2.85	3.15	3.47	3.77
180.0	1.83	2.02	2.18	2.35	2.56	2.80	3.07	3.31	3.56
202.5	2.05	2.27	2.49	2.72	2.91	3.15	3.32	3.59	3.83
225.0	2.25	2.49	2.71	2.92	3.17	3.44	3.71	3.99	4.29
247.5	2.89	3.21	3.53	3.85	4.18	4.53	4.88	5.29	5.64
270.0	2.34	2.52	2.87	3.09	3.36	3.74	3.98	4.33	4.64
292.5	2.35	2.59	2.86	3.18	3.41	3.72	4.03	4.32	4.67
315.0	2.10	2.37	2.54	2.85	3.05	3.31	3.72	3.91	4.23
337.5	2.04	2.10	2.41	2.50	2.79	2.90	3.14	3.27	3.46
360.0	1.88	2.04	2.15	2.45	2.61	2.93	3.01	3.25	3.60

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Intensity data(cd)									Page: 14 Total:16		
C/ (°)	108.0	109.0	110.0	111.0	112.0	113.0	114.0	115.0	116.0		
0.0	3.74	3.90	4.11	4.28	4.57	4.71	5.06	5.14	5.43		
22.5	3.75	3.85	4.06	4.23	4.39	4.61	4.66	4.79	4.88		
45.0	3.97	4.21	4.60	4.66	5.01	5.17	5.49	5.57	5.78		
67.5	4.68	5.06	5.49	5.94	6.35	6.72	7.05	7.32	7.62		
90.0	6.33	6.71	7.09	7.46	7.84	8.04	8.37	8.77	9.20		
112.5	5.28	5.60	5.99	6.37	6.82	7.26	7.80	8.20	8.52		
135.0	5.38	5.72	6.08	6.44	6.83	7.16	7.53	7.86	8.13		
157.5	3.98	4.14	4.25	4.41	4.52	4.68	4.89	5.05	5.27		
180.0	3.85	4.12	4.28	4.41	4.55	4.71	4.93	5.11	5.38		
202.5	4.02	4.18	4.21	4.34	4.50	4.62	4.88	5.18	5.42		
225.0	4.65	4.96	5.26	5.56	5.90	6.15	6.41	6.60	6.76		
247.5	6.04	6.47	6.90	7.37	7.81	8.28	8.73	9.16	9.46		
270.0	5.03	5.32	5.61	5.84	6.05	6.37	6.72	7.15	7.34		
292.5	5.03	5.41	5.78	6.25	6.62	7.00	7.24	7.54	7.68		
315.0	4.61	4.83	5.05	5.42	5.59	5.85	6.09	6.40	6.66		
337.5	3.78	3.81	4.11	4.24	4.46	4.62	4.78	4.97	4.97		
360.0	3.74	3.90	4.11	4.28	4.57	4.71	5.06	5.14	5.43		
C/ (°)	117.0	118.0	119.0	120.0	121.0	122.0	123.0	124.0	125.0		
0.0	5.51	5.65	5.84	6.18	6.58	7.17	7.40	7.58	7.64		
22.5	5.04	5.15	5.54	5.98	6.35	6.55	6.74	7.19	7.30		
45.0	5.87	5.97	6.06	6.30	6.33	6.35	6.41	6.43	6.54		
67.5	7.89	8.02	8.16	8.34	8.46	8.64	8.94	9.32	9.61		
90.0	9.56	9.82	10.04	10.26	10.49	10.74	10.98	11.22	11.39		
112.5	8.85	9.10	9.34	9.53	9.69	9.85	10.02	10.34	10.72		
135.0	8.37	8.53	8.53	8.53	8.53	8.45	8.42	8.42	8.42		
157.5	5.43	5.57	5.79	6.15	6.59	7.04	7.20	7.40	7.87		
180.0	5.68	5.97	6.25	6.52	6.78	7.03	7.32	7.65	8.02		
202.5	5.66	5.85	6.04	6.40	6.85	7.37	7.72	8.06	8.39		
225.0	6.89	6.95	7.02	7.02	7.08	7.05	7.11	7.16	7.40		
247.5	9.75	10.05	10.26	10.45	10.59	10.70	10.91	11.07	11.26		
270.0	7.61	7.93	8.17	8.42	8.50	8.69	8.88	9.09	9.33		
292.5	7.87	8.06	8.19	8.38	8.54	8.84	9.04	9.33	9.71		
315.0	6.75	6.78	6.99	7.20	7.31	7.56	7.69	8.04	8.28		
337.5	5.00	5.21	5.66	6.08	6.50	6.80	7.19	7.57	7.94		
360.0	5.51	5.65	5.84	6.18	6.58	7.17	7.40	7.58	7.64		
C/ (°)	126.0	127.0	128.0	129.0	130.0	131.0	132.0	133.0	134.0		
0.0	7.95	8.17	8.42	8.47	8.58	8.61	8.61	8.58	8.66		
22.5	7.51	7.76	8.06	8.24	8.46	8.52	8.60	8.63	8.71		
45.0	6.72	6.73	6.81	7.07	7.16	7.29	7.34	7.48	7.56		
67.5	9.94	10.33	10.74	11.15	11.47	11.69	11.88	11.93	11.91		
90.0	11.62	12.00	12.47	12.89	13.33	13.73	14.07	14.40	14.53		
112.5	11.12	11.48	11.80	12.02	12.23	12.36	12.50	12.58	12.63		
135.0	8.45	8.51	8.70	8.97	9.32	9.76	10.16	10.53	10.80		
157.5	8.15	8.38	8.55	8.76	8.98	9.14	9.19	9.22	9.36		
180.0	8.21	8.46	8.77	8.93	8.93	8.87	8.72	8.69	8.72		
202.5	8.71	9.01	9.27	9.55	9.74	9.92	10.11	10.27	10.32		
225.0	7.56	7.72	7.83	8.02	8.18	8.31	8.45	8.56	8.72		
247.5	11.61	12.10	12.45	12.74	12.87	12.87	12.87	12.85	12.77		
270.0	9.75	10.08	10.44	10.78	11.19	11.48	11.75	11.86	11.89		
292.5	9.90	10.22	10.44	10.66	10.77	10.77	10.71	10.61	10.52		
315.0	8.53	8.66	8.69	8.75	8.88	8.94	8.96	8.99	8.99		
337.5	8.32	8.82	9.02	9.27	9.35	9.46	9.48	9.51	9.69		
360.0	7.95	8.17	8.42	8.47	8.58	8.61	8.61	8.58	8.66		

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Intensity data(cd)										Page: 15 Total:16	
C/ (°)	135.0	136.0	137.0	138.0	139.0	140.0	141.0	142.0	143.0		
0.0	8.93	8.98	9.04	9.14	9.46	9.87	10.22	10.46	10.54		
22.5	8.89	8.97	9.16	9.32	9.48	9.70	9.81	9.84	9.84		
45.0	7.61	7.80	7.99	8.25	8.60	8.90	9.24	9.49	9.91		
67.5	11.90	11.90	11.90	11.90	11.90	11.90	11.90	11.90	11.93		
90.0	14.64	14.72	14.72	14.72	14.72	14.72	14.71	14.63	14.31		
112.5	12.63	12.63	12.72	12.72	12.82	12.82	12.82	12.82	12.85		
135.0	11.02	11.13	11.23	11.31	11.39	11.45	11.59	11.74	11.83		
157.5	9.51	9.67	9.78	9.81	9.81	9.86	9.92	9.99	10.02		
180.0	8.74	8.96	9.23	9.53	9.80	10.09	10.36	10.66	10.84		
202.5	10.35	10.40	10.46	10.46	10.46	10.51	10.54	10.57	10.59		
225.0	8.88	9.01	9.14	9.28	9.39	9.55	9.81	10.11	10.38		
247.5	12.65	12.41	12.28	12.01	12.04	12.04	12.15	12.12	12.20		
270.0	11.92	11.92	11.97	12.00	12.03	12.21	12.37	12.35	12.35		
292.5	10.52	10.55	10.58	10.84	11.09	11.33	11.55	11.71	11.71		
315.0	8.99	8.99	8.99	9.04	9.02	9.23	9.47	9.79	10.19		
337.5	9.75	9.86	9.94	10.18	10.26	10.60	10.61	10.66	10.80		
360.0	8.93	8.98	9.04	9.14	9.46	9.87	10.22	10.46	10.54		
C/ (°)	144.0	145.0	146.0	147.0	148.0	149.0	150.0	151.0	152.0		
0.0	10.62	10.62	10.78	11.00	11.08	11.16	11.21	11.22	11.22		
22.5	10.00	10.35	10.67	10.99	11.21	11.42	11.53	11.56	11.67		
45.0	10.21	10.53	10.72	10.96	11.15	11.36	11.45	11.47	11.45		
67.5	11.83	11.77	11.77	11.74	11.74	11.74	11.74	11.74	11.77		
90.0	13.82	13.21	12.70	12.51	12.51	12.57	12.73	13.13	13.48		
112.5	12.82	12.80	12.80	12.80	12.82	12.61	12.41	12.25	12.04		
135.0	12.02	12.23	12.45	12.64	12.77	12.85	12.82	12.82	12.82		
157.5	10.08	10.13	10.27	10.37	10.53	10.70	10.91	11.10	11.26		
180.0	10.87	10.87	10.89	10.87	10.87	10.76	10.65	10.59	10.33		
202.5	10.70	10.90	11.13	11.16	11.16	11.08	11.02	11.02	10.67		
225.0	10.65	10.92	11.23	11.45	11.72	11.72	11.69	11.69	11.64		
247.5	12.29	12.58	12.97	13.28	13.60	13.71	13.68	13.66	13.65		
270.0	12.35	12.37	11.98	11.55	11.01	10.55	10.23	10.20	10.22		
292.5	11.71	11.69	11.69	11.69	11.69	11.79	11.93	12.04	12.04		
315.0	10.47	10.81	11.19	11.58	11.98	12.34	12.50	12.66	12.63		
337.5	11.01	11.22	11.41	11.47	11.55	11.63	11.71	11.79	11.77		
360.0	10.62	10.62	10.78	11.00	11.08	11.16	11.21	11.22	11.22		
C/ (°)	153.0	154.0	155.0	156.0	157.0	158.0	159.0	160.0	161.0		
0.0	11.22	11.22	11.22	11.24	11.30	11.48	11.67	11.89	12.13		
22.5	11.67	11.67	11.67	11.67	11.70	11.86	11.94	12.05	12.10		
45.0	11.47	11.45	11.40	11.42	11.42	11.63	11.87	12.06	12.30		
67.5	11.58	11.29	11.07	11.07	11.07	11.07	11.18	11.47	11.69		
90.0	13.78	13.94	13.91	13.94	13.96	14.07	14.23	14.42	14.47		
112.5	11.87	11.60	11.30	11.06	11.01	11.01	11.21	11.82	12.64		
135.0	12.82	12.82	12.82	12.85	12.91	13.07	13.12	13.23	13.42		
157.5	11.42	11.69	11.96	12.23	12.52	12.85	13.20	13.55	13.90		
180.0	10.22	9.92	9.90	9.93	10.01	10.14	10.28	10.47	10.63		
202.5	10.40	10.27	10.24	10.27	10.33	10.43	10.46	10.49	10.59		
225.0	11.66	11.61	11.61	11.55	11.44	11.21	11.21	11.23	11.29		
247.5	13.19	12.66	12.14	11.66	11.47	11.50	11.50	11.58	11.64		
270.0	10.46	10.65	10.92	11.32	11.73	12.07	12.35	12.43	12.72		
292.5	12.04	11.90	11.72	11.58	11.61	11.55	11.53	11.52	11.52		
315.0	12.66	12.58	12.47	12.42	12.42	12.47	12.45	12.52	12.74		
337.5	11.77	11.74	11.61	11.58	11.55	11.55	11.55	11.63	11.79		
360.0	11.22	11.22	11.22	11.24	11.30	11.48	11.67	11.89	12.13		

LUMA Lighting

Intensity data(cd)										Page: 16 Total:16	
C/ (°)	162.0	163.0	164.0	165.0	166.0	167.0	168.0	169.0	170.0		
0.0	12.32	12.45	12.72	13.17	13.61	14.12	14.75	15.34	15.84		
22.5	12.18	12.40	12.61	13.07	13.66	14.26	14.89	15.56	16.06		
45.0	12.49	12.65	12.84	13.19	13.59	14.17	14.55	14.95	15.33		
67.5	11.90	12.01	12.36	12.55	12.79	12.85	13.22	14.39	15.13		
90.0	14.61	14.77	14.99	15.29	16.04	16.33	16.42	16.85	17.16		
112.5	13.40	13.91	14.24	14.63	15.51	15.86	16.05	16.33	16.88		
135.0	13.47	13.47	13.50	13.61	13.74	13.94	14.31	14.80	15.36		
157.5	14.13	14.35	14.48	14.76	15.40	16.10	16.51	16.82	17.12		
180.0	10.73	10.84	10.90	11.23	12.08	13.03	13.68	14.29	14.92		
202.5	10.68	10.86	11.01	11.40	12.10	13.02	13.75	14.35	14.97		
225.0	11.46	11.88	12.34	12.94	13.77	14.69	15.20	15.67	16.25		
247.5	11.75	11.88	11.99	12.19	12.72	13.43	14.03	14.23	14.65		
270.0	12.81	13.10	13.39	13.88	14.53	14.61	14.58	15.42	16.48		
292.5	11.55	11.71	11.98	12.47	12.81	12.96	13.22	14.13	14.82		
315.0	12.82	12.98	13.25	13.75	14.50	15.11	15.52	15.98	16.30		
337.5	11.90	12.14	12.65	13.23	13.64	14.10	14.57	14.96	15.36		
360.0	12.32	12.45	12.72	13.17	13.61	14.12	14.75	15.34	15.84		
C/ (°)	171.0	172.0	173.0	174.0	175.0	176.0	177.0	178.0	179.0		
0.0	16.08	16.16	16.38	16.59	16.68	16.81	16.84	16.81	16.76		
22.5	16.30	16.55	16.76	17.16	17.46	17.73	17.98	18.11	18.11		
45.0	15.33	15.44	15.55	15.86	16.09	16.17	16.14	16.17	15.85		
67.5	15.49	15.75	15.78	16.00	16.16	16.24	16.27	16.30	16.32		
90.0	17.16	17.14	17.00	16.95	16.95	16.76	16.79	16.74	17.03		
112.5	17.18	17.18	17.12	17.04	17.01	16.75	16.77	16.78	16.94		
135.0	15.82	16.01	16.20	16.39	16.47	16.47	16.36	16.16	15.66		
157.5	17.38	17.55	17.65	17.65	17.95	17.95	17.86	17.48	16.87		
180.0	15.52	15.95	16.14	16.28	16.68	16.95	17.19	17.13	16.62		
202.5	15.57	16.13	16.53	16.74	17.01	17.17	17.11	16.83	16.34		
225.0	16.77	17.33	17.59	17.74	18.26	18.28	18.34	18.19	17.80		
247.5	14.98	15.12	15.38	15.50	15.84	15.84	15.81	15.78	15.54		
270.0	17.10	17.14	17.43	17.97	18.31	18.35	18.37	18.16	17.81		
292.5	15.22	15.42	15.50	15.72	15.88	15.91	15.99	16.04	16.04		
315.0	16.47	16.49	16.71	17.09	17.11	17.22	17.20	17.20	17.22		
337.5	15.72	15.93	16.22	16.54	16.74	17.08	17.06	17.06	17.09		
360.0	16.08	16.16	16.38	16.59	16.68	16.81	16.84	16.81	16.76		
C/ (°)	180.0										
0.0	16.72										
22.5	16.72										
45.0	16.72										
67.5	16.72										
90.0	16.72										
112.5	16.72										
135.0	16.72										
157.5	16.72										
180.0	16.72										
202.5	16.72										
225.0	16.72										
247.5	16.72										
270.0	16.72										
292.5	16.72										
315.0	16.72										
337.5	16.72										
360.0	16.72										