



LUMA Lighting

LumCAT:	Luminaire: FL13-120W-P540-D1-GLC-SFV
Report No: FL13-120W-P540-D1-GLC	Voltage(V): 0.000
Test No: JK lab 2016 0921	Current(A): 0.000
LampCAT: :	Power (W): 131.900
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): 17071.25
Lumens(lm)/Power(W): 129.43
Central intensity(cd): 6134.880
Maximum intensity(cd): 6160.880
Angle of maximum intensity: C=292.5 =4.0
Beam Angle(50% lmax): [C0__180]Left=61.3 Right=51.3
[C90__270]Left=55.4 Right=57.0
Field angle(10% lmax): [C0__180]Left=81.6 Right=71.6
[C90__270]Left=75.0 Right=75.5
Effective flux(lm): 16831.15
IES Nema Type : Type7H×7V

LUMA Lighting

Zonal flux distribution table 单位:lm

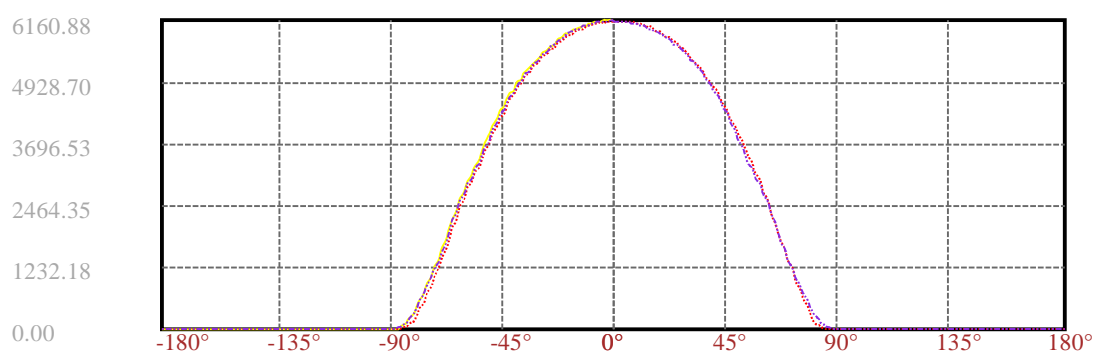
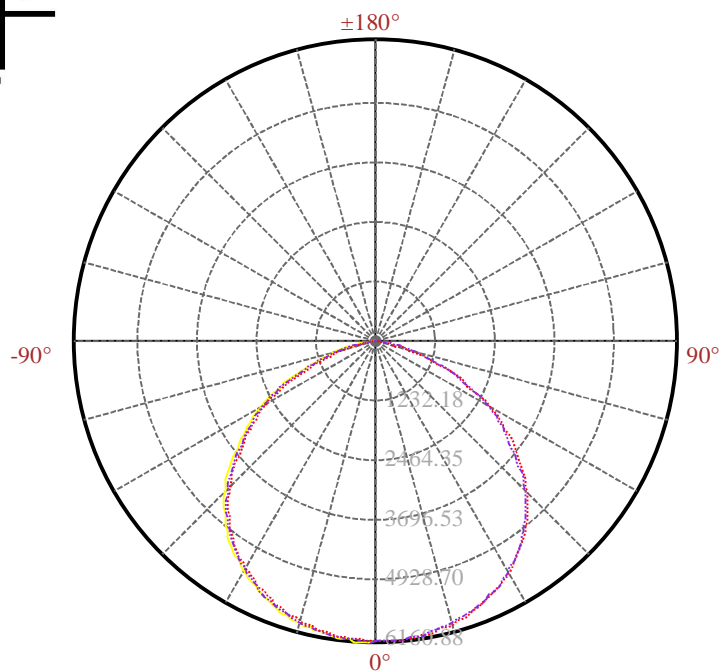
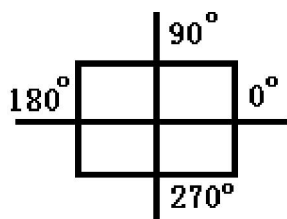
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V \ H		H																			Total	
		-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90	---	---
V	-90	0.0	0.0	0.1	0.2	0.4	0.9	1.6	2.1	2.4	2.5	2.2	1.7	0.9	0.4	0.1	0.0	0.0	0.0		15.7	
	-80	0.0	0.1	0.6	2.5	6.3	11.4	16.7	21.1	23.7	24.1	22.3	18.2	12.6	7.1	2.7	0.5	0.1	0.0		170.1	
	-70	0.0	0.4	2.9	9.9	20.8	33.4	45.5	55.1	60.3	60.8	56.5	47.6	35.5	22.6	11.1	3.2	0.3	0.0		465.8	
	-60	0.0	1.0	7.1	20.2	38.0	56.9	75.5	89.2	96.3	97.0	91.2	78.5	60.1	40.6	22.1	8.0	1.0	0.0		782.6	
	-50	0.1	2.1	11.9	30.7	54.5	80.8	103.9	120.0	128.4	129.0	121.7	106.6	84.7	58.0	33.1	13.2	2.2	0.0		1080.8	
	-40	0.1	3.2	16.5	40.3	68.9	99.9	125.3	142.9	152.4	153.2	144.8	128.0	103.4	73.1	43.0	18.1	3.5	0.1		1316.7	
	-30	0.1	4.2	20.3	47.4	79.1	112.2	139.5	158.1	168.4	169.3	160.2	141.9	115.8	83.6	50.6	22.0	4.7	0.1		1477.8	
	-20	0.1	5.0	23.1	52.1	86.2	120.3	147.9	168.2	178.8	180.0	170.2	150.6	123.6	90.3	55.5	24.8	5.5	0.1		1582.5	
	-10	0.2	5.4	24.4	54.5	89.9	124.6	152.4	172.6	183.6	184.7	174.7	155.4	127.6	93.5	57.8	26.3	5.9	0.1		1633.6	
	0	0.2	5.4	24.4	54.6	90.1	124.8	152.7	173.2	184.2	184.7	175.0	155.6	127.6	93.3	57.7	26.3	5.9	0.1		1635.8	
	10	0.1	5.0	23.1	52.3	87.1	120.9	148.7	169.1	180.1	180.1	170.4	151.0	123.5	89.7	55.2	24.8	5.5	0.1		1586.7	
	20	0.1	4.3	20.4	47.5	80.1	113.4	140.5	159.8	170.3	170.3	160.7	142.2	115.4	82.7	50.3	21.9	4.6	0.1		1484.8	
	30	0.1	3.2	16.6	40.2	69.4	100.8	126.4	144.5	153.9	154.0	145.1	128.1	103.1	72.6	42.9	17.9	3.5	0.1		1322.3	
	40	0.1	2.1	12.0	30.8	54.6	81.2	104.6	120.9	129.4	129.9	122.4	106.8	84.5	57.9	32.8	13.1	2.2	0.0		1085.1	
	50	0.0	1.1	7.1	20.3	38.1	57.1	75.9	89.5	96.4	96.8	90.4	77.8	59.9	40.4	21.8	7.8	1.0	0.0		781.6	
60	0.0	0.4	3.0	10.0	20.7	33.3	45.3	54.9	60.2	60.5	55.8	46.8	35.0	22.2	10.8	3.1	0.3	0.0		462.5		
70	0.0	0.1	0.6	2.7	6.5	11.6	16.8	21.2	23.7	24.0	21.9	17.8	12.3	6.9	2.7	0.5	0.1	0.0		169.4		
80	0.0	0.0	0.1	0.2	0.5	1.1	1.8	2.4	2.8	2.8	2.5	1.8	1.0	0.4	0.1	0.0	0.0	0.0		17.6		
90																						
Total	---	1.2	43.0	214.2	516.4	891.2	1284.5	1621.2	1864.9	1995.4	2003.7	1887.9	1656.3	1326.7	935.2	550.4	231.7	46.4	1.0		17071.3	

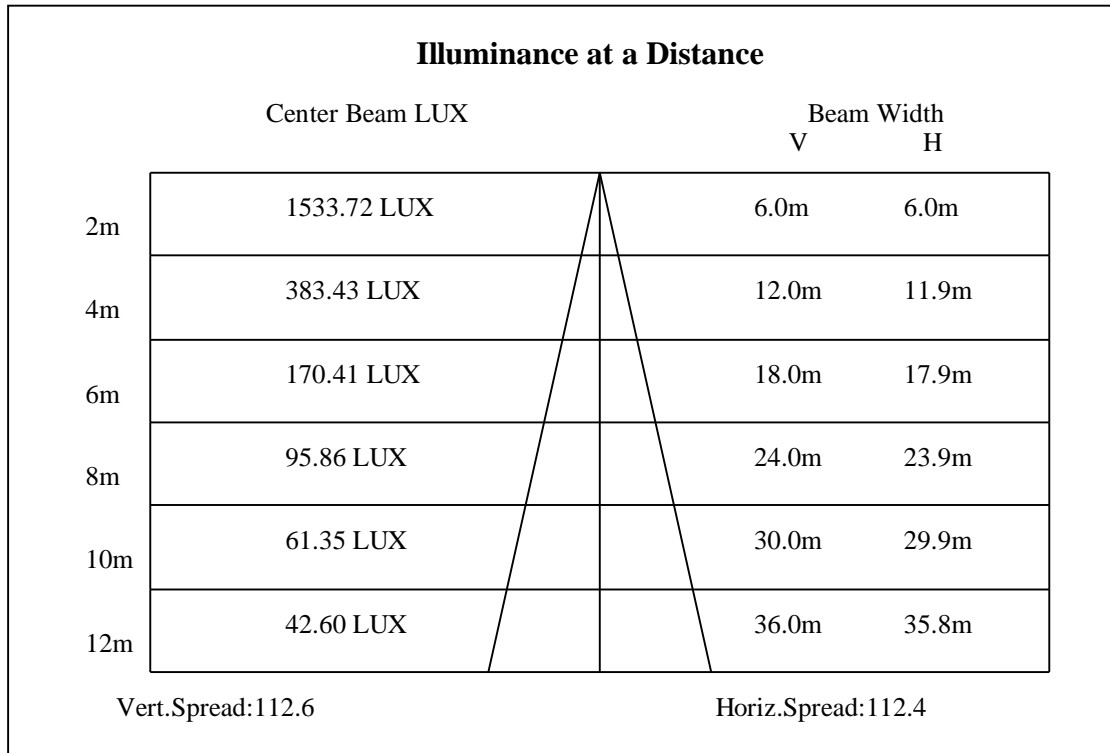
Equipment: GMS2200
 Temperature(°C): 25

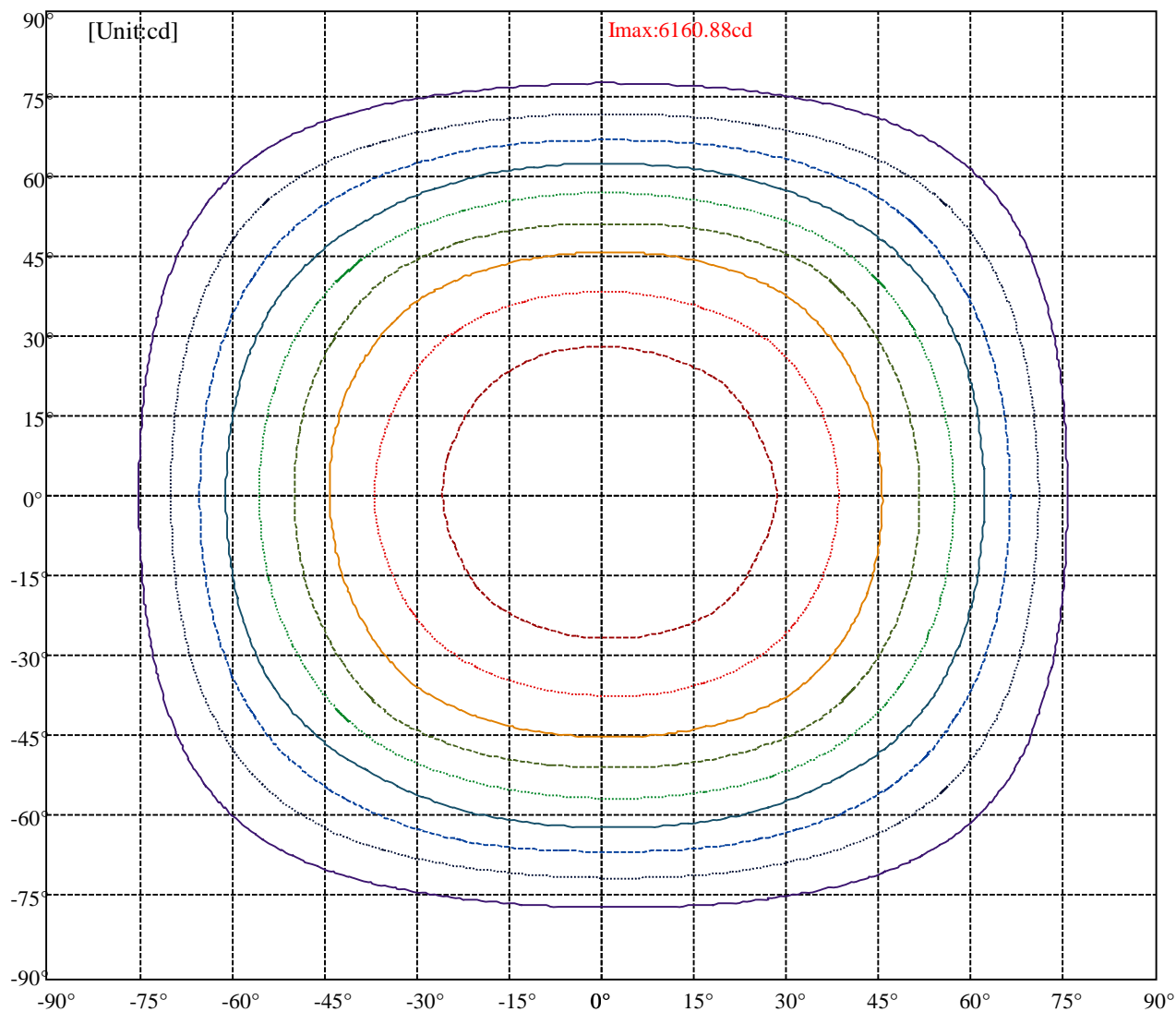
Date:
 Humidity(%): 60%

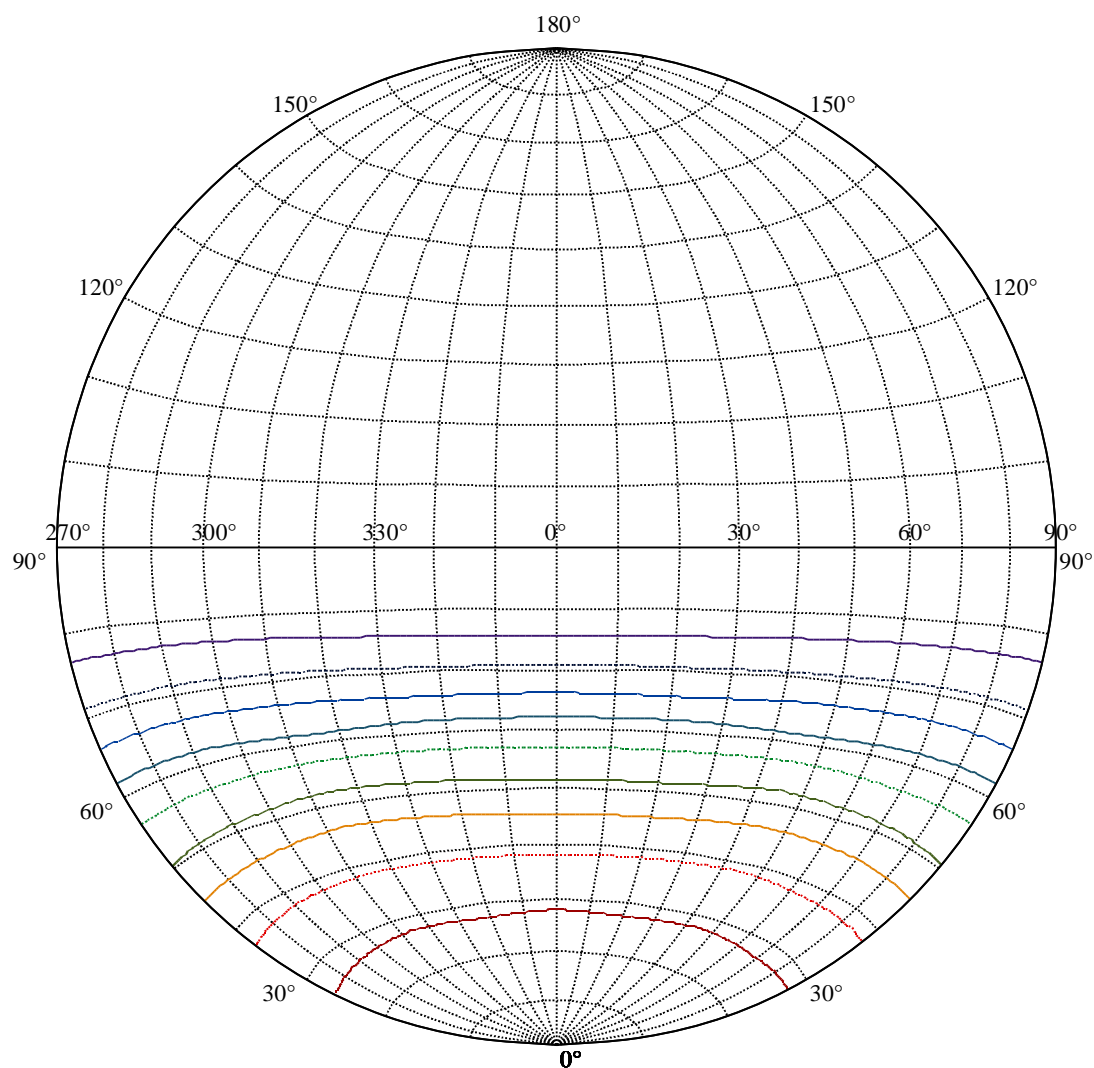
Operator:
 Distance(m): 13.72



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





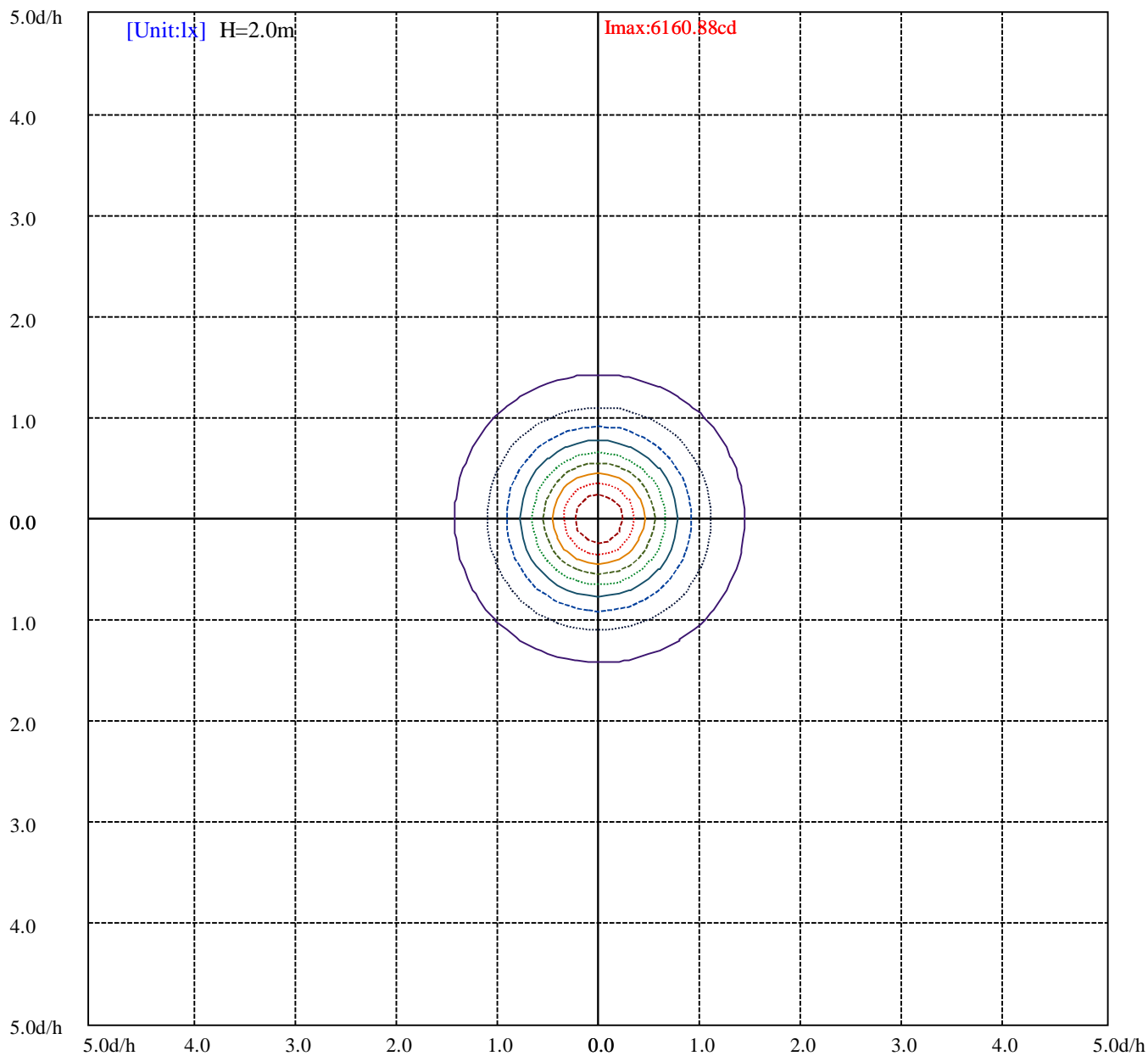


House

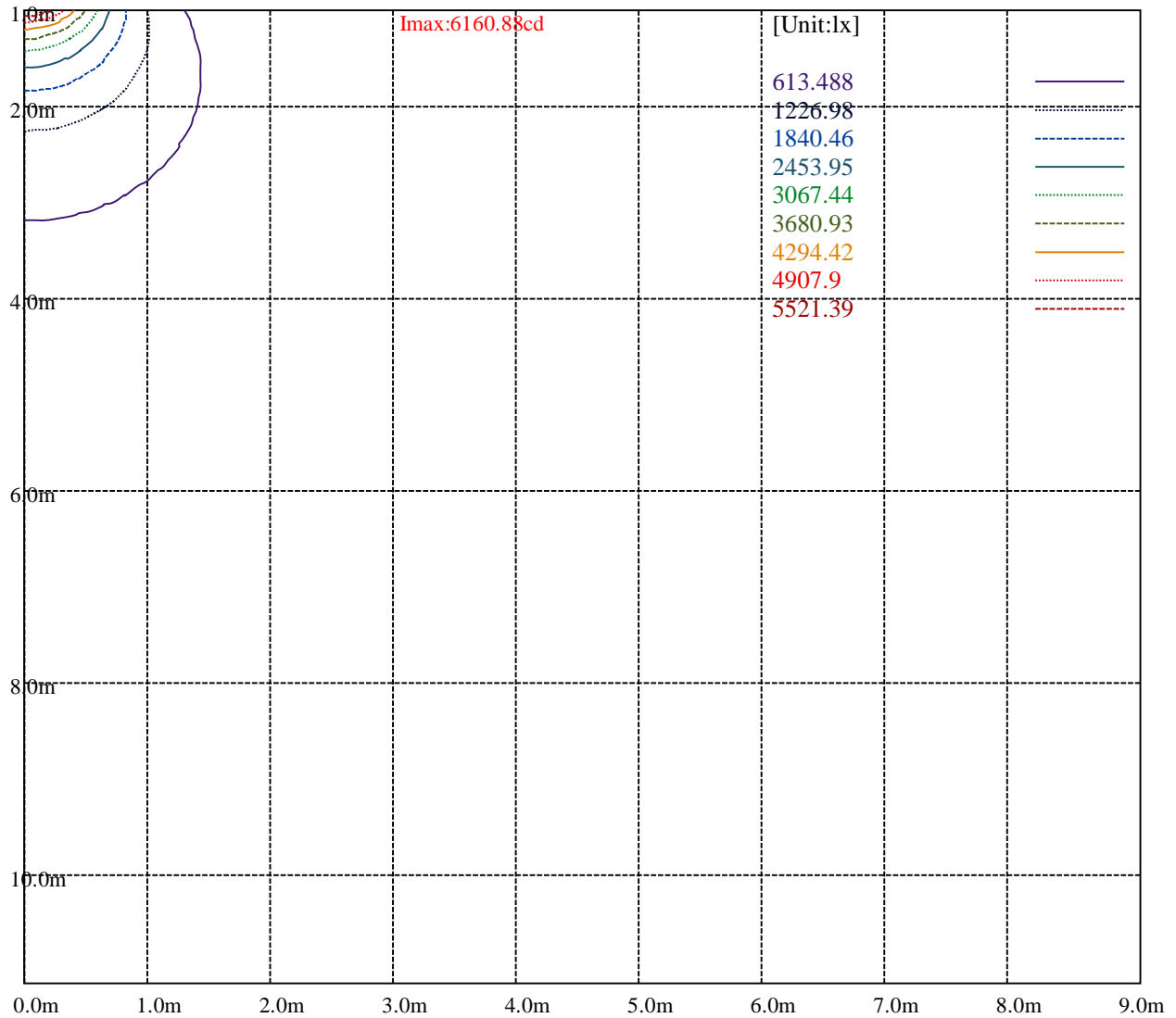
Road

I_{max}:6160.88cd

(10% I _{max}) 615.995	—
(20% I _{max}) 1231.99	---
(30% I _{max}) 1847.98	- - -
(40% I _{max}) 2463.98	—
(50% I _{max}) 3079.97	---
(60% I _{max}) 3695.97	- - -
(70% I _{max}) 4311.96	—
(80% I _{max}) 4927.96	---
(90% I _{max}) 5543.95	- - -



(10%Emax)	153.372	———
(20%Emax)	306.745
(30%Emax)	460.115	- - - - -
(40%Emax)	613.4875	———
(50%Emax)	766.86
(60%Emax)	920.2325	- - - - -
(70%Emax)	1073.605	———
(80%Emax)	1226.975
(90%Emax)	1380.348	- - - - -



Luminance Table

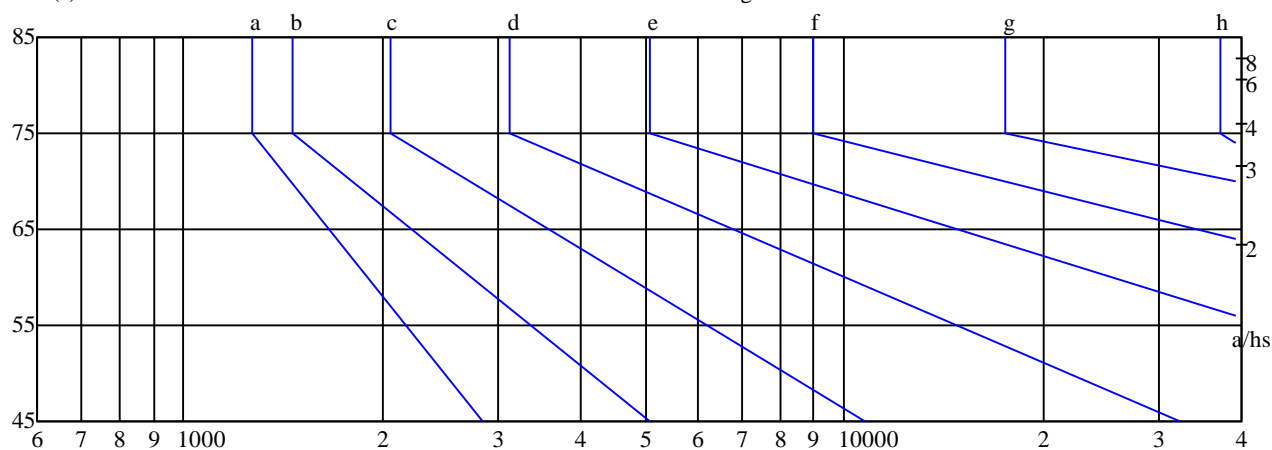
	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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	6134.88	6137.36	6133.34	6118.67	6127.38	6128.13	6133.13	6128.18	6106.40		
22.5	6134.88	6141.97	6105.37	6131.65	6120.73	6115.15	6104.16	6103.32	6089.45		
45.0	6134.88	6136.18	6142.11	6133.26	6130.32	6129.66	6127.32	6112.62	6113.29		
67.5	6134.88	6099.93	6106.59	6107.50	6117.42	6110.50	6104.92	6080.61	6107.78		
90.0	6134.88	6140.89	6121.49	6130.63	6131.39	6137.62	6109.27	6091.62	6093.19		
112.5	6134.88	6151.20	6134.38	6131.95	6145.57	6136.75	6095.43	6089.14	6085.20		
135.0	6134.88	6126.54	6119.51	6110.07	6143.08	6097.84	6097.23	6088.56	6084.29		
157.5	6134.88	6123.90	6119.35	6107.74	6101.26	6113.47	6074.80	6066.61	6052.87		
180.0	6134.88	6128.38	6112.03	6106.39	6090.00	6106.98	6086.37	6077.08	6070.76		
202.5	6134.88	6078.17	6106.15	6096.28	6098.01	6060.70	6049.31	6062.75	6048.77		
225.0	6134.88	6118.47	6122.17	6116.55	6103.10	6111.49	6097.53	6066.95	6069.23		
247.5	6134.88	6078.97	6112.92	6117.96	6093.03	6099.72	6086.67	6064.15	6061.75		
270.0	6134.88	6149.78	6134.42	6127.16	6112.96	6104.10	6106.54	6105.13	6092.97		
292.5	6134.88	6149.33	6149.07	6150.86	6160.88	6124.51	6106.33	6113.36	6111.66		
315.0	6134.88	6142.12	6129.76	6116.60	6118.96	6106.89	6124.34	6109.03	6114.65		
337.5	6134.88	6127.38	6152.26	6130.04	6128.38	6121.73	6115.73	6099.03	6098.05		
360.0	6134.88	6137.36	6133.34	6118.67	6127.38	6128.13	6133.13	6128.18	6106.40		
C/ (°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0		
0.0	6086.21	6077.85	6076.89	6063.93	6017.65	6030.89	6018.82	5970.94	5942.09		
22.5	6064.95	6063.10	6065.44	6027.52	6013.27	5996.51	5974.49	5936.93	5917.50		
45.0	6089.63	6089.20	6089.20	6065.94	6051.91	6020.51	5997.47	5967.10	5930.93		
67.5	6074.66	6052.96	6051.10	6034.01	6012.21	5998.65	5983.65	5954.02	5937.00		
90.0	6102.59	6061.23	6047.01	6028.23	5998.14	5987.44	5963.18	5927.63	5923.69		
112.5	6081.46	6068.91	6059.82	6036.50	6021.53	6007.97	5969.87	5960.11	5943.47		
135.0	6060.96	6062.47	6051.58	6047.23	6016.50	6000.07	5971.31	5955.33	5915.71		
157.5	6043.93	6025.31	6016.40	6001.78	5974.58	5953.48	5934.69	5899.34	5877.96		
180.0	6030.13	6034.69	6040.34	5986.46	5967.59	5962.06	5929.03	5896.73	5851.43		
202.5	6025.59	6013.45	5983.40	5947.40	5958.48	5928.53	5901.10	5871.31	5832.22		
225.0	6047.08	6036.59	6013.68	5997.21	5966.33	5953.03	5912.65	5904.40	5886.95		
247.5	6035.72	6030.62	6013.63	5983.97	5976.29	5947.93	5926.87	5894.97	5871.00		
270.0	6070.08	6055.13	6047.08	6034.53	6012.16	5983.06	5955.65	5928.11	5918.01		
292.5	6083.93	6072.31	6045.52	6044.93	6016.79	6024.89	5978.07	5961.19	5937.72		
315.0	6091.26	6073.05	6075.73	6031.76	6037.09	6012.16	5984.73	5960.95	5928.09		
337.5	6088.11	6067.07	6058.19	6032.83	5992.10	5984.95	5968.23	5938.13	5919.53		
360.0	6086.21	6077.85	6076.89	6063.93	6017.65	6030.89	6018.82	5970.94	5942.09		
C/ (°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0		
0.0	5924.84	5884.19	5865.45	5830.62	5799.90	5770.33	5723.20	5685.31	5640.01		
22.5	5900.87	5888.26	5853.54	5821.49	5795.14	5744.85	5711.43	5675.34	5601.67		
45.0	5925.36	5888.32	5844.13	5812.41	5781.77	5740.53	5719.57	5662.73	5632.89		
67.5	5902.03	5857.24	5829.52	5823.17	5763.42	5749.35	5695.15	5654.04	5615.44		
90.0	5890.16	5864.16	5849.03	5815.25	5782.10	5735.09	5672.73	5663.37	5625.36		
112.5	5913.12	5870.61	5843.46	5795.45	5767.10	5732.13	5694.74	5649.47	5605.40		
135.0	5874.69	5841.97	5813.78	5772.26	5728.08	5697.06	5660.34	5617.46	5570.51		
157.5	5827.49	5814.31	5775.31	5721.02	5696.49	5667.25	5603.15	5581.27	5531.75		
180.0	5840.20	5800.67	5778.07	5749.45	5691.20	5658.23	5602.39	5568.28	5524.30		
202.5	5822.13	5778.11	5757.63	5722.39	5671.40	5642.54	5599.40	5557.57	5510.17		
225.0	5838.19	5813.09	5787.10	5746.92	5715.29	5681.69	5638.77	5589.77	5556.03		
247.5	5846.39	5814.90	5775.19	5739.65	5708.07	5660.58	5616.15	5584.49	5548.98		
270.0	5874.14	5840.84	5808.97	5761.97	5732.53	5696.34	5667.95	5624.95	5563.15		
292.5	5902.99	5883.32	5845.54	5803.23	5763.89	5710.00	5668.10	5624.05	5583.42		
315.0	5883.46	5875.82	5847.20	5819.47	5776.38	5758.51	5703.83	5667.07	5624.50		
337.5	5888.46	5868.13	5840.65	5799.95	5743.54	5729.20	5693.55	5643.20	5608.19		
360.0	5924.84	5884.19	5865.45	5830.62	5799.90	5770.33	5723.20	5685.31	5640.01		

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	5606.11	5555.94	5505.10	5458.54	5390.09	5328.45	5278.83	5226.28	5151.64		
22.5	5582.71	5512.76	5476.71	5417.83	5375.49	5319.87	5254.17	5219.48	5147.89		
45.0	5583.69	5547.56	5513.05	5472.92	5398.40	5336.57	5271.57	5212.48	5157.70		
67.5	5562.88	5518.56	5469.83	5391.77	5348.73	5313.40	5248.61	5192.93	5142.87		
90.0	5575.36	5520.53	5471.30	5421.36	5369.37	5310.53	5236.44	5187.02	5111.81		
112.5	5563.81	5523.41	5462.50	5418.57	5364.45	5284.91	5230.57	5175.07	5116.66		
135.0	5531.92	5480.34	5421.80	5383.71	5329.88	5279.46	5226.36	5175.07	5112.68		
157.5	5479.91	5454.00	5390.04	5328.90	5275.05	5215.75	5167.67	5107.72	5042.25		
180.0	5482.92	5423.05	5378.27	5334.51	5278.88	5226.96	5153.32	5105.91	5048.85		
202.5	5451.29	5401.28	5358.57	5307.94	5261.16	5207.15	5143.40	5090.74	5024.99		
225.0	5489.72	5439.05	5398.78	5349.55	5286.90	5243.67	5183.91	5132.35	5070.80		
247.5	5484.52	5427.56	5368.66	5317.49	5277.76	5231.63	5182.69	5111.70	5048.98		
270.0	5505.08	5472.66	5423.25	5365.14	5305.48	5262.08	5200.13	5138.28	5081.31		
292.5	5542.13	5497.36	5452.21	5389.31	5355.07	5294.25	5237.22	5186.25	5129.17		
315.0	5580.90	5533.66	5473.97	5423.66	5377.38	5321.88	5267.80	5215.81	5150.15		
337.5	5557.62	5509.06	5460.02	5417.17	5356.02	5313.15	5263.36	5208.86	5150.88		
360.0	5606.11	5555.94	5505.10	5458.54	5390.09	5328.45	5278.83	5226.28	5151.64		
C/ (°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0		
0.0	5084.48	5019.39	4948.51	4878.93	4809.77	4726.65	4640.74	4557.02	4461.20		
22.5	5079.10	5028.09	4956.92	4888.72	4796.75	4726.22	4632.78	4541.10	4455.62		
45.0	5102.97	5022.99	4969.52	4901.20	4827.08	4757.71	4676.63	4608.91	4542.11		
67.5	5072.48	5001.70	4919.64	4853.43	4763.23	4707.05	4619.71	4545.92	4472.04		
90.0	5063.85	4984.16	4915.08	4830.08	4752.47	4686.05	4599.91	4510.03	4404.51		
112.5	5061.25	4982.78	4917.71	4842.11	4769.84	4683.05	4597.00	4518.97	4431.02		
135.0	5050.04	4978.17	4918.57	4847.98	4761.28	4675.08	4616.67	4529.55	4440.46		
157.5	4977.41	4911.62	4839.27	4776.30	4704.08	4628.10	4543.83	4456.03	4387.29		
180.0	4972.91	4908.61	4830.16	4753.30	4667.37	4579.23	4502.64	4411.83	4303.03		
202.5	4957.28	4892.77	4825.38	4745.47	4664.38	4578.31	4494.86	4392.41	4312.29		
225.0	5023.38	4946.61	4858.34	4794.57	4721.28	4648.29	4578.13	4494.57	4402.72		
247.5	4986.26	4925.42	4864.71	4793.20	4721.48	4634.92	4551.26	4472.91	4388.09		
270.0	5015.88	4928.08	4869.45	4794.84	4709.47	4641.27	4559.16	4463.45	4374.64		
292.5	5071.81	4992.71	4923.24	4844.87	4760.58	4690.19	4611.22	4540.75	4440.69		
315.0	5107.58	4996.69	4955.92	4900.06	4822.59	4769.69	4688.72	4607.31	4534.25		
337.5	5070.62	5020.14	4953.98	4878.14	4816.55	4734.20	4661.68	4574.84	4491.29		
360.0	5084.48	5019.39	4948.51	4878.93	4809.77	4726.65	4640.74	4557.02	4461.20		
C/ (°)	45.0	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0		
0.0	4360.15	4262.37	4158.84	4067.87	3960.87	3859.40	3752.15	3644.19	3544.25		
22.5	4367.77	4269.48	4149.04	4058.41	3955.17	3862.01	3754.65	3640.61	3538.00		
45.0	4437.05	4340.86	4250.27	4171.49	4080.57	3974.44	3843.91	3747.84	3630.92		
67.5	4384.10	4287.75	4198.54	4091.29	3986.63	3870.95	3759.09	3622.89	3477.60		
90.0	4318.25	4225.13	4105.52	3993.88	3869.60	3749.95	3619.07	3507.74	3398.83		
112.5	4326.75	4230.70	4129.58	4026.17	3919.28	3807.32	3682.62	3553.55	3428.86		
135.0	4349.16	4272.20	4179.88	4078.06	3976.01	3875.43	3758.48	3628.40	3504.87		
157.5	4284.08	4178.75	4075.84	3981.16	3860.72	3741.87	3621.02	3503.18	3383.99		
180.0	4196.61	4103.23	4008.37	3887.41	3773.07	3662.35	3547.39	3445.65	3337.11		
202.5	4211.06	4119.24	4012.83	3909.75	3803.52	3695.97	3582.05	3459.17	3336.33		
225.0	4326.40	4237.93	4145.93	4040.56	3946.88	3843.92	3735.75	3609.84	3484.69		
247.5	4297.24	4201.99	4107.24	4002.00	3897.10	3785.27	3655.97	3540.49	3419.06		
270.0	4290.75	4188.18	4079.70	3967.44	3847.89	3727.42	3619.13	3506.90	3404.38		
292.5	4350.82	4265.54	4165.80	4067.13	3958.80	3847.48	3728.02	3609.95	3496.62		
315.0	4450.04	4362.38	4269.83	4163.87	4066.64	3955.43	3842.61	3741.38	3628.60		
337.5	4401.84	4311.97	4214.24	4112.33	4007.01	3904.97	3802.89	3688.68	3583.25		
360.0	4360.15	4262.37	4158.84	4067.87	3960.87	3859.40	3752.15	3644.19	3544.25		

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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	3427.30	3310.98	3193.61	3089.17	2978.64	2864.29	2735.73	2602.69	2482.13
22.5	3432.65	3309.21	3197.05	3073.58	2955.71	2833.81	2719.74	2594.76	2472.61
45.0	3501.43	3374.00	3237.09	3100.73	2956.02	2808.07	2666.82	2520.71	2384.98
67.5	3352.35	3232.90	3124.52	3005.54	2895.13	2782.02	2663.99	2552.46	2433.84
90.0	3300.59	3204.90	3104.88	3001.20	2893.07	2781.41	2672.06	2555.89	2430.17
112.5	3315.63	3195.30	3091.34	2983.76	2869.99	2757.16	2638.45	2519.45	2388.19
135.0	3372.89	3222.20	3068.10	2930.81	2789.95	2649.64	2506.93	2373.81	2251.35
157.5	3260.51	3142.54	3033.03	2921.45	2802.53	2676.50	2555.80	2433.25	2308.69
180.0	3229.23	3126.90	3020.44	2924.12	2818.45	2691.74	2572.74	2446.01	2304.33
202.5	3217.18	3115.88	3008.26	2903.12	2794.49	2684.72	2571.78	2442.67	2318.06
225.0	3347.92	3214.51	3075.23	2930.47	2781.03	2629.95	2489.87	2360.06	2233.62
247.5	3295.08	3182.51	3073.27	2958.57	2855.60	2744.13	2622.54	2498.01	2374.17
270.0	3296.32	3201.69	3099.75	3002.17	2894.87	2790.83	2679.64	2558.14	2433.60
292.5	3380.03	3267.96	3161.55	3050.31	2943.95	2829.22	2709.69	2587.53	2464.84
315.0	3509.06	3391.01	3243.22	3116.41	2954.88	2791.07	2648.10	2511.56	2383.28
337.5	3473.56	3346.27	3235.96	3106.59	2985.99	2855.89	2730.45	2606.34	2473.14
360.0	3427.30	3310.98	3193.61	3089.17	2978.64	2864.29	2735.73	2602.69	2482.13

C/ (°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	2291.17	2113.83	1993.04	1879.50	1755.47	1607.55	1436.79	1321.94	1220.71
22.5	2332.62	2194.49	2014.73	1839.61	1715.22	1601.34	1482.36	1328.10	1189.78
45.0	2256.47	2125.45	2010.70	1886.32	1776.48	1644.28	1525.17	1384.79	1208.80
67.5	2297.05	2169.95	2035.66	1907.01	1778.52	1631.12	1477.36	1347.74	1241.51
90.0	2296.05	2150.67	2006.29	1858.87	1726.89	1594.91	1463.44	1350.03	1232.49
112.5	2260.28	2119.88	1984.99	1861.53	1723.49	1585.45	1447.41	1311.72	1198.49
135.0	2129.79	2014.61	1903.19	1791.55	1673.66	1555.77	1437.41	1305.36	1160.91
157.5	2172.68	2024.00	1881.00	1753.42	1625.85	1498.38	1375.71	1246.46	1115.38
180.0	2154.86	2013.87	1864.76	1729.25	1593.73	1458.37	1331.33	1208.35	1089.29
202.5	2177.06	2029.35	1880.72	1748.88	1617.03	1485.25	1356.17	1226.16	1098.78
225.0	2118.35	2012.32	1900.19	1789.60	1673.40	1557.19	1440.90	1297.43	1164.43
247.5	2248.06	2130.60	2020.53	1888.00	1741.76	1595.52	1449.32	1317.98	1189.82
270.0	2301.29	2162.54	2020.23	1862.95	1717.55	1585.19	1468.17	1349.74	1235.80
292.5	2329.39	2199.17	2067.14	1934.08	1791.57	1652.87	1515.26	1393.62	1274.63
315.0	2259.85	2134.75	2011.26	1890.70	1779.62	1661.93	1545.08	1414.88	1251.21
337.5	2330.56	2192.80	2032.94	1858.00	1743.99	1631.20	1508.23	1349.31	1197.30
360.0	2291.17	2113.83	1993.04	1879.50	1755.47	1607.55	1436.79	1321.94	1220.71

C/ (°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	1063.32	929.08	806.44	683.90	561.36	448.66	325.75	233.13	160.45
22.5	1073.02	936.27	816.32	696.63	576.94	483.32	374.78	269.14	184.76
45.0	1085.99	974.80	854.73	742.10	629.56	524.08	427.45	336.38	258.20
67.5	1118.46	1005.00	896.47	785.80	675.10	564.39	483.65	391.07	312.68
90.0	1121.43	1007.07	888.72	780.61	684.93	582.98	467.30	382.52	309.90
112.5	1077.88	961.72	850.11	739.89	630.00	540.15	460.77	364.34	290.84
135.0	1027.35	897.23	782.55	686.00	591.56	494.42	398.29	314.86	243.54
157.5	979.25	847.72	730.41	626.63	528.15	430.05	346.71	263.28	185.38
180.0	965.25	847.47	724.58	616.09	500.70	411.13	321.14	232.23	162.80
202.5	972.72	848.35	738.34	626.17	523.45	420.76	339.06	252.49	178.84
225.0	1029.21	905.07	792.11	686.55	577.98	483.32	391.90	308.47	232.26
247.5	1070.92	961.93	852.54	727.15	628.43	543.82	455.75	366.35	287.89
270.0	1129.11	1015.13	896.88	788.19	679.61	571.04	460.67	375.84	294.86
292.5	1155.86	1039.36	917.85	806.94	696.14	585.33	492.61	394.53	305.96
315.0	1104.73	979.84	870.40	758.48	646.54	555.87	441.73	351.94	267.65
337.5	1076.17	961.79	834.96	708.01	581.06	489.00	379.98	278.24	188.97
360.0	1063.32	929.08	806.44	683.90	561.36	448.66	325.75	233.13	160.45

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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	88.42	59.72	36.37	14.97	6.02	5.13	3.78	1.20	0.66
22.5	122.39	69.63	46.11	22.58	7.10	4.42	3.74	1.44	0.72
45.0	186.00	120.70	76.96	44.41	23.98	7.59	3.18	2.08	0.85
67.5	240.40	179.48	127.19	76.76	43.51	21.66	7.83	2.15	1.17
90.0	245.74	189.48	132.38	84.97	53.12	30.62	14.84	5.40	1.11
112.5	228.14	176.47	127.65	82.48	49.30	25.20	9.03	3.02	1.64
135.0	181.87	127.66	82.15	50.50	29.14	11.40	5.31	3.92	0.99
157.5	126.51	81.57	56.26	31.00	12.33	7.45	6.64	3.16	0.54
180.0	102.62	72.00	48.15	23.95	10.87	8.31	7.44	2.52	0.41
202.5	123.53	77.56	52.99	29.66	12.17	7.08	6.21	2.98	0.46
225.0	167.02	113.67	69.35	42.87	24.37	9.72	4.31	3.27	0.70
247.5	217.40	159.43	108.31	65.17	35.43	17.62	6.08	2.26	1.34
270.0	229.73	167.56	111.62	64.28	36.86	19.47	7.93	2.17	1.04
292.5	234.35	172.58	118.67	68.69	34.29	15.12	4.84	1.93	1.11
315.0	189.05	121.98	71.86	38.63	19.65	6.85	3.33	2.11	0.86
337.5	120.87	67.24	43.50	21.24	7.25	4.70	3.87	1.60	0.73
360.0	88.42	59.72	36.37	14.97	6.02	5.13	3.78	1.20	0.66
C/ (°)	90.0	91.0	92.0	93.0	94.0	95.0	96.0	97.0	98.0
0.0	0.54	0.54	0.51	0.51	0.51	0.51	0.51	0.59	0.70
22.5	0.59	0.54	0.54	0.54	0.54	0.54	0.54	0.61	0.72
45.0	0.73	0.68	0.67	0.67	0.67	0.70	0.67	0.75	0.75
67.5	0.85	0.84	0.81	0.81	0.81	0.81	0.81	0.84	1.03
90.0	0.90	0.90	0.98	1.01	1.09	1.17	1.34	1.47	1.66
112.5	1.06	1.06	1.14	1.25	1.36	1.49	1.66	1.82	2.04
135.0	0.70	0.73	0.78	0.84	0.89	1.00	1.14	1.25	1.40
157.5	0.51	0.54	0.57	0.57	0.62	0.70	0.78	0.89	1.02
180.0	0.43	0.41	0.43	0.46	0.54	0.59	0.68	0.79	0.92
202.5	0.46	0.46	0.48	0.51	0.59	0.64	0.73	0.86	0.97
225.0	0.62	0.65	0.68	0.73	0.76	0.86	0.95	1.08	1.21
247.5	0.76	0.76	0.81	0.81	0.89	1.00	1.09	1.25	1.38
270.0	0.93	0.92	0.90	0.90	0.90	0.90	0.90	1.24	1.25
292.5	0.92	0.92	0.89	0.89	0.89	0.89	0.97	1.19	1.19
315.0	0.76	0.76	0.70	0.70	0.70	0.76	0.76	0.83	0.94
337.5	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.67	0.75
360.0	0.54	0.54	0.51	0.51	0.51	0.51	0.51	0.59	0.70
C/ (°)	99.0	100.0	101.0	102.0	103.0	104.0	105.0	106.0	107.0
0.0	0.78	0.86	1.15	1.24	1.27	1.69	1.70	1.70	1.91
22.5	0.78	0.91	1.14	1.18	1.21	1.70	1.74	1.72	1.87
45.0	0.91	1.18	1.24	1.21	1.72	1.72	1.75	2.05	2.05
67.5	1.19	1.24	1.69	1.73	1.79	2.02	2.16	2.30	2.51
90.0	1.85	2.04	2.29	2.53	2.78	3.02	3.33	3.62	3.86
112.5	2.28	2.50	2.74	3.04	3.31	3.61	3.93	4.24	4.51
135.0	1.54	1.78	1.84	1.97	2.11	2.27	2.48	2.76	2.97
157.5	1.16	1.29	1.43	1.51	1.59	1.78	1.97	2.19	2.35
180.0	1.06	1.19	1.32	1.41	1.52	1.70	1.86	1.98	2.19
202.5	1.10	1.23	1.40	1.50	1.66	1.80	1.93	2.07	2.20
225.0	1.40	1.51	1.67	1.83	2.00	2.16	2.35	2.54	2.73
247.5	1.52	1.73	1.87	2.03	2.25	2.41	2.60	2.79	3.01
270.0	1.57	1.77	1.77	2.03	2.17	2.47	2.66	2.96	3.18
292.5	1.40	1.65	1.71	2.03	2.16	2.38	2.58	2.95	3.04
315.0	1.21	1.24	1.69	1.73	1.73	2.07	2.13	2.24	2.43
337.5	0.89	1.21	1.19	1.29	1.70	1.70	1.72	1.86	2.07
360.0	0.78	0.86	1.15	1.24	1.27	1.69	1.70	1.70	1.91

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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	2.05	2.05	2.19	2.37	2.48	2.67	2.88	2.92	3.05		
22.5	2.03	2.04	2.14	2.30	2.41	2.52	2.57	2.63	2.78		
45.0	2.20	2.39	2.50	2.69	2.88	2.99	3.23	3.26	3.39		
67.5	2.86	2.97	3.24	3.51	3.81	3.95	4.16	4.35	4.70		
90.0	4.17	4.44	4.77	5.03	5.34	5.52	5.77	6.07	6.45		
112.5	4.75	5.03	5.34	5.65	5.97	6.30	6.73	7.03	7.27		
135.0	3.19	3.35	3.56	3.75	3.97	4.13	4.35	4.51	4.64		
157.5	2.45	2.59	2.64	2.78	2.89	2.99	3.13	3.26	3.37		
180.0	2.41	2.54	2.65	2.70	2.87	3.00	3.14	3.30	3.49		
202.5	2.31	2.41	2.49	2.63	2.76	2.90	3.00	3.14	3.25		
225.0	2.94	3.13	3.29	3.51	3.72	3.88	4.04	4.10	4.23		
247.5	3.22	3.44	3.65	3.90	4.12	4.33	4.58	4.79	4.93		
270.0	3.37	3.80	3.86	3.99	4.18	4.43	4.67	5.00	5.14		
292.5	3.28	3.57	3.79	4.06	4.31	4.57	4.77	5.07	5.12		
315.0	2.61	2.91	2.94	3.23	3.32	3.50	3.80	3.80	3.94		
337.5	2.07	2.18	2.31	2.45	2.56	2.72	2.96	2.96	2.96		
360.0	2.05	2.05	2.19	2.37	2.48	2.67	2.88	2.92	3.05		
C/ (°)	117.0	118.0	119.0	120.0	121.0	122.0	123.0	124.0	125.0		
0.0	3.29	3.35	3.38	3.51	3.75	4.02	4.24	4.45	4.65		
22.5	2.97	2.95	3.05	3.27	3.53	3.75	3.80	3.91	4.10		
45.0	3.53	3.77	3.88	3.85	3.85	3.93	4.04	4.15	4.20		
67.5	4.71	4.79	4.84	5.06	5.11	5.11	5.27	5.49	5.63		
90.0	6.77	7.05	7.30	7.53	7.82	8.11	8.35	8.54	8.71		
112.5	7.54	7.73	7.89	8.00	8.11	8.22	8.35	8.60	8.87		
135.0	4.73	4.86	4.91	4.94	4.94	4.96	4.99	4.99	5.05		
157.5	3.53	3.61	3.75	3.99	4.21	4.45	4.53	4.62	4.93		
180.0	3.68	3.87	4.05	4.19	4.35	4.54	4.70	4.92	5.19		
202.5	3.43	3.59	3.73	3.97	4.24	4.56	4.80	5.02	5.25		
225.0	4.31	4.34	4.42	4.47	4.53	4.58	4.69	4.83	4.96		
247.5	5.06	5.20	5.28	5.30	5.33	5.36	5.39	5.41	5.49		
270.0	5.51	5.71	6.00	6.15	6.41	6.42	6.42	6.55	6.82		
292.5	5.23	5.50	5.50	5.66	5.80	5.94	6.10	6.37	6.40		
315.0	3.99	4.13	4.21	4.24	4.37	4.69	4.69	4.86	5.04		
337.5	2.96	3.17	3.50	3.77	4.09	4.25	4.57	4.77	5.06		
360.0	3.29	3.35	3.38	3.51	3.75	4.02	4.24	4.45	4.65		
C/ (°)	126.0	127.0	128.0	129.0	130.0	131.0	132.0	133.0	134.0		
0.0	4.67	4.89	5.05	5.08	5.16	5.24	5.51	5.59	5.56		
22.5	4.18	4.34	4.60	4.66	4.74	4.96	5.01	5.01	5.04		
45.0	4.20	4.31	4.60	4.61	4.79	5.01	5.04	5.06	5.20		
67.5	5.87	6.01	6.17	6.41	6.39	6.39	6.39	6.44	6.47		
90.0	8.84	9.22	9.57	9.90	10.17	10.47	10.69	11.02	11.12		
112.5	9.17	9.44	9.63	9.82	9.90	9.87	9.87	9.89	9.84		
135.0	5.13	5.18	5.29	5.45	5.61	5.78	5.91	5.96	6.02		
157.5	5.12	5.26	5.34	5.50	5.60	5.68	5.74	5.74	5.79		
180.0	5.35	5.49	5.67	5.73	5.70	5.70	5.70	5.70	5.73		
202.5	5.42	5.57	5.71	5.87	5.92	5.90	5.90	5.90	5.90		
225.0	5.09	5.17	5.28	5.42	5.55	5.69	5.79	5.90	5.96		
247.5	5.61	5.79	5.98	6.12	6.12	6.12	6.12	6.12	6.12		
270.0	7.01	7.26	7.66	7.86	8.15	8.48	8.51	8.57	8.54		
292.5	6.56	6.83	6.86	7.24	7.35	7.43	7.62	7.62	7.70		
315.0	5.29	5.53	5.58	5.56	5.56	5.59	5.59	5.64	5.74		
337.5	5.44	5.55	5.79	5.90	5.93	5.93	5.95	5.95	5.95		
360.0	4.67	4.89	5.05	5.08	5.16	5.24	5.51	5.59	5.56		

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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	5.59	5.70	5.86	5.91	6.05	6.31	6.56	6.75	6.75	
22.5	5.06	5.04	5.04	5.20	5.47	5.52	5.70	5.84	5.87	
45.0	5.33	5.49	5.57	5.82	6.03	6.33	6.52	6.73	7.11	
67.5	6.55	6.66	6.79	6.82	6.92	7.22	7.28	7.28	7.28	
90.0	11.18	11.18	11.15	11.15	11.10	11.09	11.04	10.79	10.51	
112.5	9.78	9.57	9.46	9.46	9.46	9.46	9.46	9.49	9.52	
135.0	6.15	6.23	6.31	6.42	6.51	6.61	6.78	6.93	7.07	
157.5	5.90	5.98	6.06	6.12	6.20	6.30	6.44	6.55	6.68	
180.0	5.81	5.95	6.13	6.30	6.46	6.67	6.84	7.08	7.19	
202.5	5.90	5.90	5.95	5.98	5.95	5.95	5.98	6.03	6.09	
225.0	6.04	6.12	6.23	6.42	6.57	6.74	6.96	7.20	7.41	
247.5	6.12	6.12	6.12	6.12	6.14	6.14	6.20	6.36	6.47	
270.0	8.54	8.54	8.54	8.54	8.57	8.73	8.84	8.94	9.06	
292.5	7.75	7.78	7.81	7.89	8.07	8.21	8.35	8.38	8.38	
315.0	5.80	5.91	5.88	5.96	6.25	6.39	6.66	6.85	7.18	
337.5	6.01	6.06	6.32	6.36	6.41	6.54	6.73	6.79	6.89	
360.0	5.59	5.70	5.86	5.91	6.05	6.31	6.56	6.75	6.75	
C/ (°)	144.0	145.0	146.0	147.0	148.0	149.0	150.0	151.0	152.0	
0.0	6.80	6.94	7.20	7.24	7.29	7.35	7.43	7.40	7.40	
22.5	5.98	6.30	6.59	6.70	6.86	7.05	7.21	7.18	7.18	
45.0	7.30	7.57	7.75	7.95	8.08	8.16	8.37	8.46	8.49	
67.5	7.33	7.47	7.65	7.82	8.06	8.14	8.17	8.17	8.17	
90.0	10.08	9.59	9.11	8.73	8.59	8.57	8.59	8.68	8.76	
112.5	9.57	9.65	9.76	9.90	9.84	9.84	9.76	9.60	9.49	
135.0	7.21	7.39	7.53	7.72	7.88	8.10	8.31	8.48	8.64	
157.5	6.79	6.87	6.95	7.00	7.14	7.28	7.41	7.52	7.57	
180.0	7.27	7.27	7.21	7.21	7.21	7.23	6.99	6.78	6.69	
202.5	6.22	6.32	6.35	6.35	6.35	6.30	6.27	6.19	6.14	
225.0	7.57	7.79	8.01	8.11	8.08	8.08	8.08	8.08	8.06	
247.5	6.60	6.80	7.12	7.39	7.64	7.88	8.09	8.09	8.09	
270.0	9.03	8.95	8.54	8.16	7.73	7.37	7.10	6.94	6.91	
292.5	8.38	8.38	8.38	8.46	8.67	8.91	9.00	9.11	9.11	
315.0	7.41	7.68	8.03	8.15	8.42	8.53	8.76	8.93	8.96	
337.5	7.16	7.22	7.32	7.49	7.62	7.62	7.62	7.68	7.65	
360.0	6.80	6.94	7.20	7.24	7.29	7.35	7.43	7.40	7.40	
C/ (°)	153.0	154.0	155.0	156.0	157.0	158.0	159.0	160.0	161.0	
0.0	7.40	7.40	7.40	7.40	7.43	7.61	7.62	7.72	7.86	
22.5	7.21	7.21	7.21	7.21	7.21	7.31	7.47	7.58	7.69	
45.0	8.51	8.49	8.38	8.33	8.33	8.33	8.35	8.41	8.43	
67.5	8.17	8.20	8.12	8.09	8.12	8.12	8.14	8.28	8.47	
90.0	8.92	9.06	9.11	9.22	9.28	9.44	9.55	9.77	9.98	
112.5	9.38	9.30	9.16	9.14	9.11	9.11	9.25	9.53	9.99	
135.0	8.72	8.83	8.96	9.07	9.23	9.39	9.58	9.74	9.90	
157.5	7.68	7.78	7.92	8.06	8.27	8.41	8.57	8.76	8.92	
180.0	6.45	6.43	6.40	6.43	6.37	6.46	6.62	6.94	7.13	
202.5	6.14	6.14	6.14	6.14	6.19	6.22	6.41	6.65	6.86	
225.0	7.86	7.71	7.62	7.54	7.33	7.30	7.30	7.33	7.38	
247.5	8.12	8.01	7.98	8.01	8.06	8.20	8.31	8.44	8.53	
270.0	6.93	6.91	7.26	7.45	7.70	7.91	8.15	8.19	8.21	
292.5	9.03	8.79	8.54	8.44	8.38	8.30	8.30	8.27	8.27	
315.0	8.93	8.93	9.01	8.99	8.98	8.98	8.98	8.98	9.04	
337.5	7.65	7.65	7.65	7.65	7.68	7.76	7.99	8.05	8.16	
360.0	7.40	7.40	7.40	7.40	7.43	7.61	7.62	7.72	7.86	

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	8.10	8.08	8.23	8.51	8.80	9.04	9.32	9.53	9.86		
22.5	7.79	8.01	8.09	8.33	8.63	8.94	9.19	9.67	9.73		
45.0	8.54	8.59	8.67	8.92	9.16	9.50	9.86	10.18	10.45		
67.5	8.55	8.63	8.71	8.96	8.96	9.28	9.50	9.93	10.31		
90.0	10.09	10.20	10.31	10.56	10.99	11.10	11.12	11.18	11.20		
112.5	10.39	10.55	10.68	10.88	11.20	11.22	11.17	11.12	11.12		
135.0	9.98	10.10	10.23	10.42	10.61	10.88	11.26	11.52	11.74		
157.5	9.05	9.10	9.19	9.30	9.73	10.19	10.65	10.99	11.27		
180.0	7.27	7.46	7.59	7.81	8.38	9.08	9.46	9.78	10.14		
202.5	7.00	7.13	7.29	7.54	7.91	8.40	8.76	9.09	9.45		
225.0	7.47	7.60	7.74	8.09	8.54	8.98	9.24	9.38	9.67		
247.5	8.66	8.74	8.88	9.15	9.45	9.94	10.23	10.42	10.64		
270.0	8.24	8.27	8.40	8.70	9.03	9.06	8.89	9.29	10.22		
292.5	8.27	8.30	8.27	8.70	9.02	9.38	9.80	10.62	11.08		
315.0	9.09	9.36	9.39	9.74	10.16	10.67	11.08	11.46	11.60		
337.5	8.37	8.46	8.59	8.97	9.31	9.56	9.59	9.88	10.20		
360.0	8.10	8.08	8.23	8.51	8.80	9.04	9.32	9.53	9.86		
C/ (°)	171.0	172.0	173.0	174.0	175.0	176.0	177.0	178.0	179.0		
0.0	9.99	10.26	10.29	10.58	10.77	10.83	11.02	11.02	11.05		
22.5	9.70	9.83	9.89	10.18	10.52	10.56	10.64	10.69	10.69		
45.0	10.72	11.04	11.07	11.18	11.31	11.42	11.48	11.50	11.43		
67.5	10.31	10.34	10.42	10.66	10.74	10.82	10.82	10.82	10.82		
90.0	11.01	10.85	10.85	10.77	10.80	10.77	10.80	10.80	10.99		
112.5	11.12	11.09	10.90	10.76	10.74	10.74	10.74	10.74	10.88		
135.0	11.90	11.96	12.09	12.17	12.14	12.14	12.17	12.11	11.93		
157.5	11.48	11.72	11.91	11.91	11.91	11.91	11.88	11.85	11.83		
180.0	10.45	10.73	10.92	11.05	11.51	11.67	11.83	11.88	11.77		
202.5	9.87	10.30	10.56	10.75	11.15	11.15	11.16	11.46	10.98		
225.0	9.92	10.22	10.46	10.62	11.07	11.13	11.16	11.34	10.83		
247.5	10.80	10.96	11.04	11.04	11.26	11.23	11.25	11.18	11.20		
270.0	10.46	10.63	10.77	11.22	11.42	11.56	11.61	11.61	11.48		
292.5	11.30	11.52	11.55	11.74	11.90	11.98	12.12	12.09	12.09		
315.0	11.84	11.95	12.03	12.11	12.33	12.38	12.38	12.41	12.20		
337.5	10.26	10.37	10.61	10.85	11.04	11.10	11.23	11.36	11.45		
360.0	9.99	10.26	10.29	10.58	10.77	10.83	11.02	11.02	11.05		
C/ (°)	180.0										
0.0	11.07										
22.5	11.07										
45.0	11.07										
67.5	11.07										
90.0	11.07										
112.5	11.07										
135.0	11.07										
157.5	11.07										
180.0	11.07										
202.5	11.07										
225.0	11.07										
247.5	11.07										
270.0	11.07										
292.5	11.07										
315.0	11.07										
337.5	11.07										
360.0	11.07										