

Report No.:

Test Time: 2023-12-08 08:44:42

LUMINAIRE PHOTOMETRIC TEST REPORT

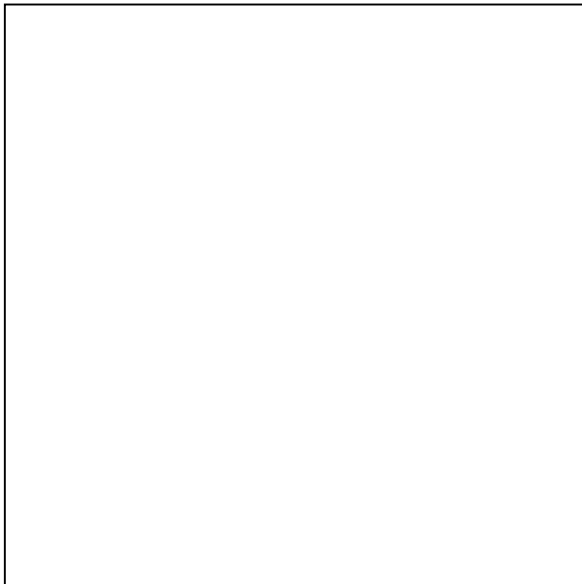
Luminaire Property

Manufacturer: 0	Voltage(V): 109.84 V
Luminaire Type:	Current(A): 0.9060 A
Lamp Type: 100W	Power(W): 99.14 W
Luminous Width: 0 mm	Power Factor: 0.9950
Luminous Length: 0 mm	Lamp Luminous Flux: 18878.13
Luminous Height: 25 mm	

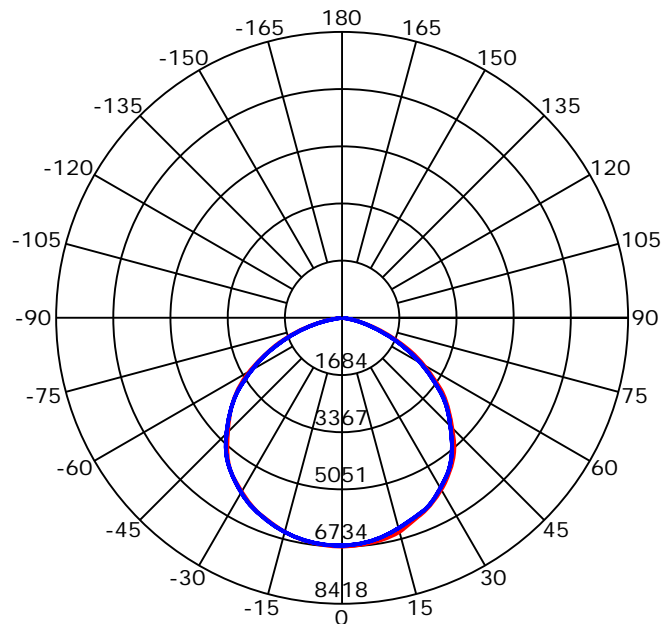
Photometric Results

CIE Class: Direct	Max. Intensity: 6734.01 cd
Luminaire Luminous Flux: 18878.13	Max. Intensity Angle: C=180 Gamma=0
Downward Ratio: 100.00%	Upward Ratio: 0.00%
Luminaire Efficacy Rating(LER): 190.42 lm/W	Efficacy: 100.00%
Beam Angle(50%) C0-180,C90-270: 114.0,112.7	Center Intensity: 6734.01 cd
Field Angle(10%) C0-180,C90-270: 154.2,153.1	Effective Luminous Flux: 18556.35 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 114.0 deg,112.7 deg

C0-180 — C90-270

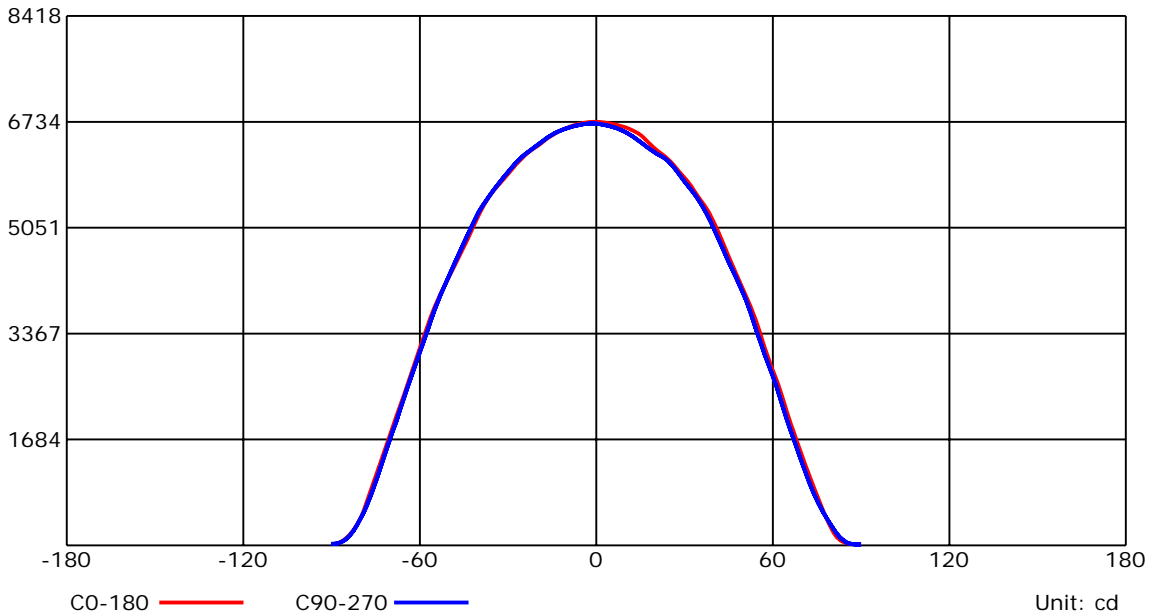
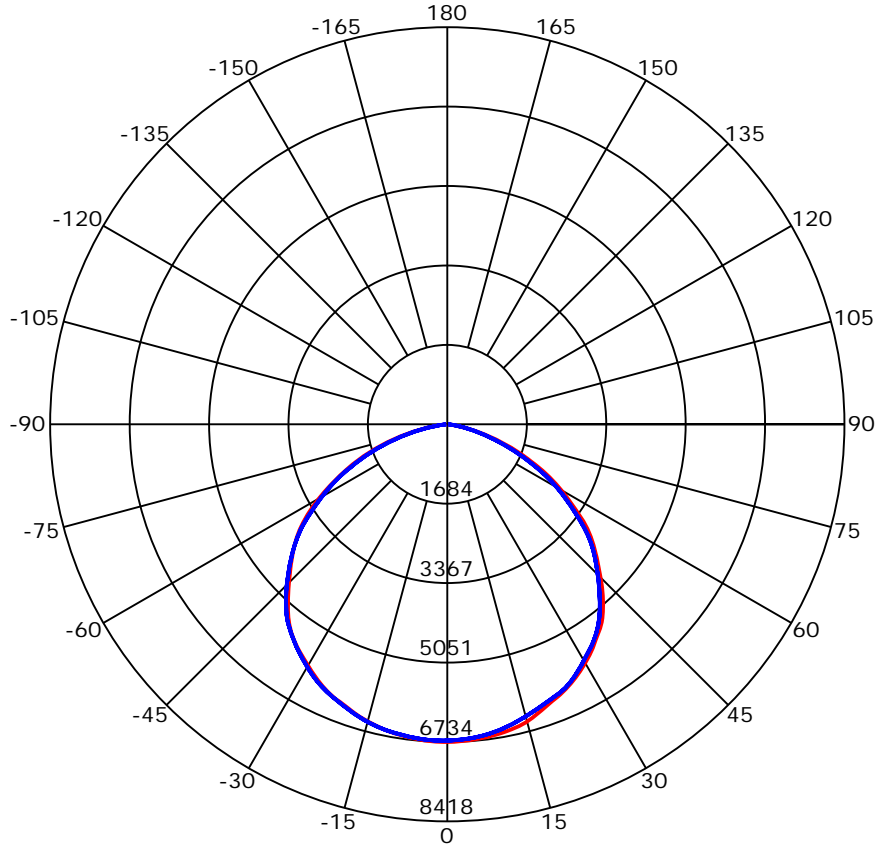
C Range: 0 - 360 Deg
 C Interval: 30.0 Deg
 Test Speed: High
 Temperature: 25
 Operators:
 Test Date: 2023-12-08 08:44:42

G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-1800B Goniophotometer
 Humidity: 65
 Test Distance: 11.25 m
 Remarks:

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Luminous Intensity Distribution Curve



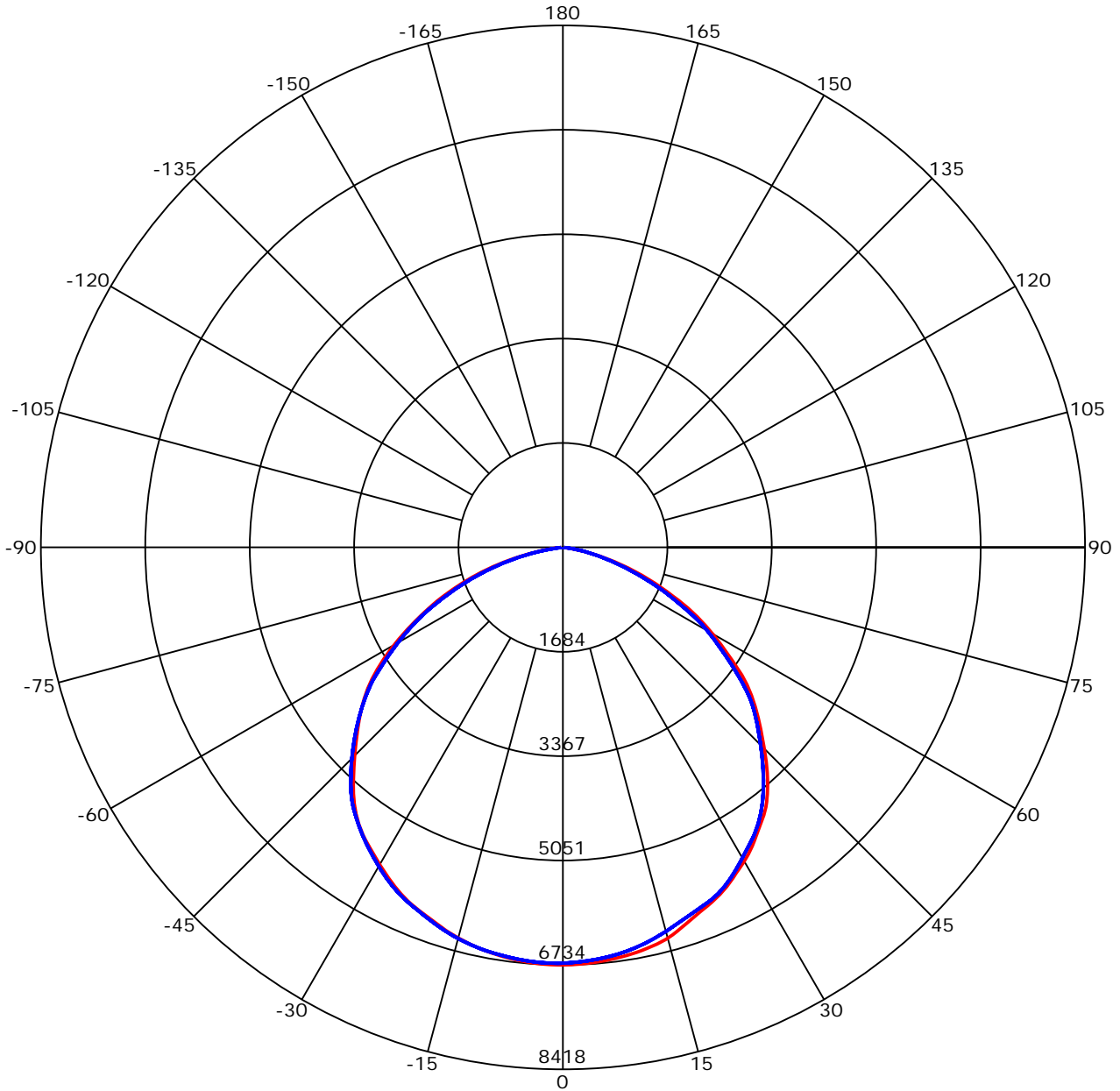
C Range: 0 - 360 Deg
 C Interval: 30.0 Deg
 Test Speed: High
 Temperature: 25
 Operators:
 Test Date: 2023-12-08 08:44:22

G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-1800B Goniophotometer
 Humidity: 65
 Test Distance: 11.25 m
 Remarks:

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Luminous Intensity Distribution Curve



C0-180 — C90-270 —
 Unit: cd/klm

C Range: 0 - 360 Deg
 C Interval: 30.0 Deg
 Test Speed: High
 Temperature: 25
 Operators:
 Test Date: 2023-12-08 08:44:42

G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-1800B Goniophotometer
 Humidity: 65
 Test Distance: 11.25 m
 Remarks:

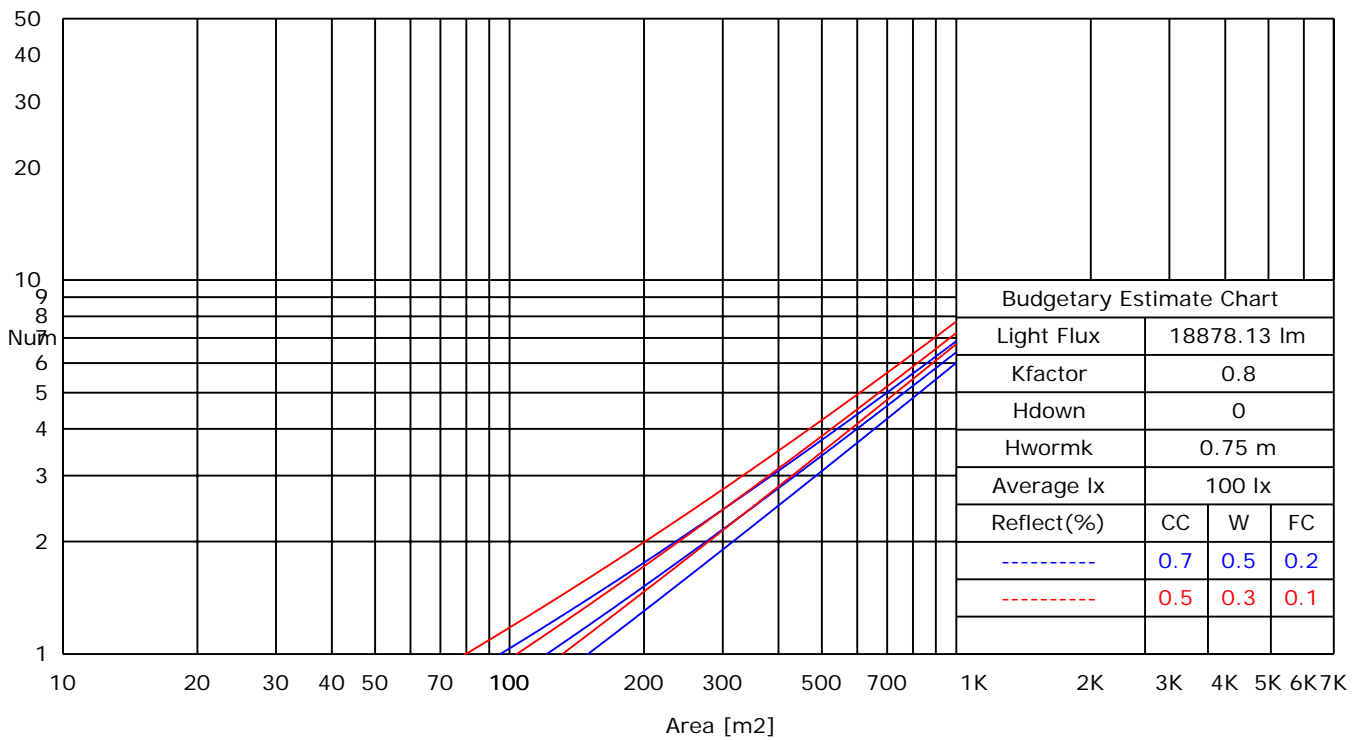
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UTILIZATION FACTORS TABLE

RHOCC	80			70			50			30			10			0
RHOW	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR	COEFFICIENTS OF UTILIZATION FOR RHOFC=20															
0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1	1.08	1.06	1.05	1.06	1.04	1.03	1.02	1.00	0.99	0.97	0.95	0.94	0.91	0.89	0.87	0.82
2	0.96	0.94	0.93	0.95	0.93	0.91	0.92	0.90	0.87	0.89	0.85	0.83	0.83	0.80	0.77	0.72
3	0.86	0.84	0.82	0.86	0.83	0.81	0.84	0.80	0.77	0.81	0.77	0.73	0.77	0.72	0.69	0.64
4	0.78	0.75	0.74	0.77	0.74	0.72	0.76	0.72	0.69	0.74	0.69	0.66	0.71	0.66	0.62	0.58
5	0.70	0.68	0.66	0.70	0.67	0.65	0.69	0.65	0.62	0.68	0.63	0.59	0.65	0.60	0.56	0.52
6	0.64	0.62	0.60	0.64	0.61	0.59	0.64	0.59	0.56	0.62	0.57	0.54	0.61	0.55	0.51	0.47
7	0.58	0.56	0.55	0.59	0.56	0.54	0.59	0.54	0.51	0.58	0.53	0.49	0.57	0.51	0.46	0.43
8	0.54	0.52	0.50	0.54	0.51	0.49	0.54	0.50	0.47	0.54	0.49	0.45	0.53	0.47	0.43	0.39
9	0.50	0.48	0.47	0.50	0.47	0.46	0.51	0.46	0.44	0.50	0.45	0.42	0.50	0.44	0.39	0.36
10	0.46	0.44	0.43	0.47	0.44	0.42	0.47	0.43	0.41	0.47	0.42	0.39	0.47	0.41	0.37	0.34

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



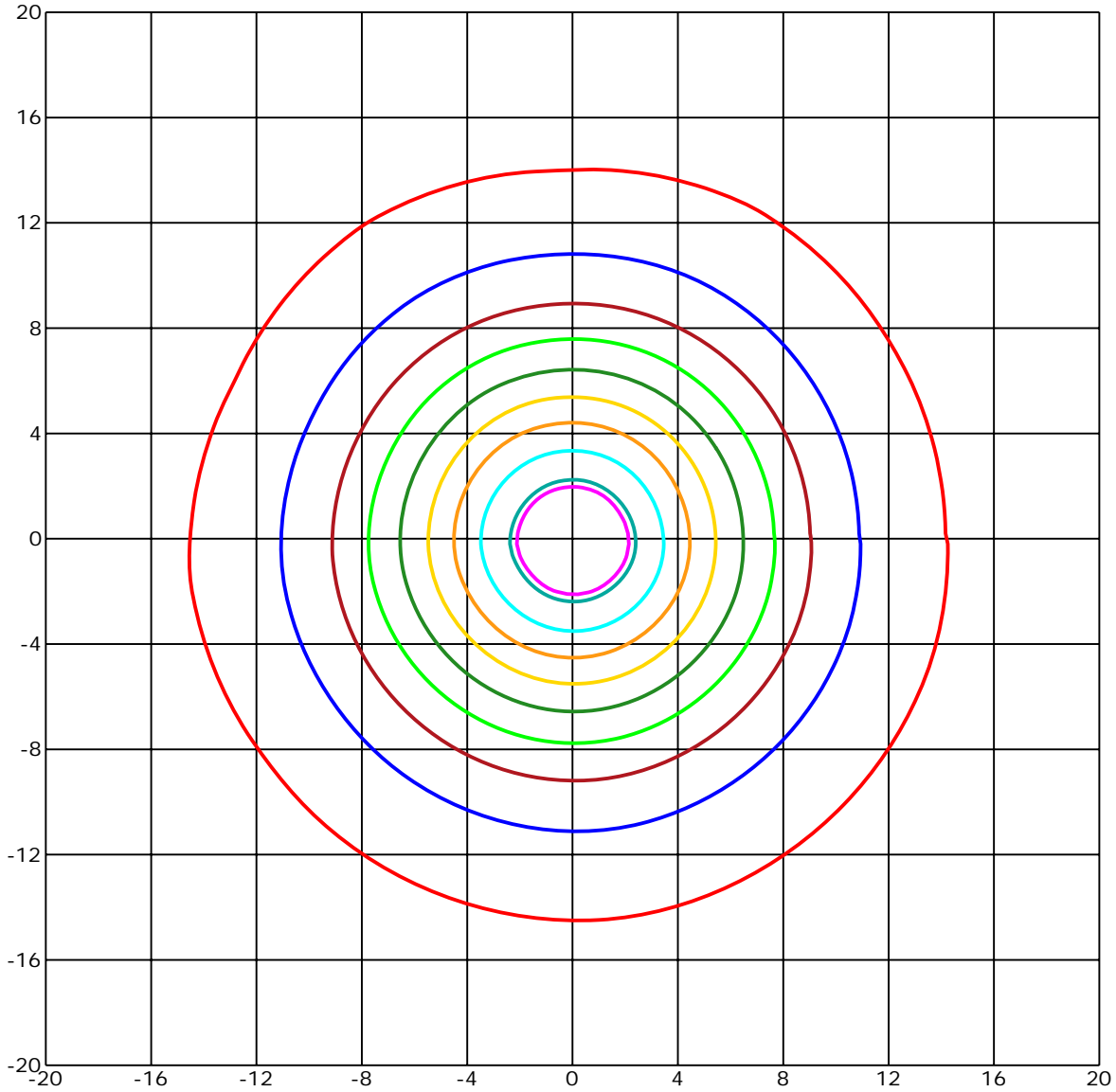
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 Operators:
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G Range: 0 - 90 Deg
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 Test System: Huipu CPM-1800B Goniophotometer
 Humidity: 65
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ISOLX DIAGRAM



Unit of illumination: lx Height of plane: 10.0(m)/32.81(ft)

61.953(1%E _{max})	33.67(1%E _{max})
60.606(1%E _{max})	26.936(0%E _{max})
53.872(1%E _{max})	20.202(0%E _{max})
47.138(1%E _{max})	13.468(0%E _{max})
40.404(1%E _{max})	6.734(0%E _{max})

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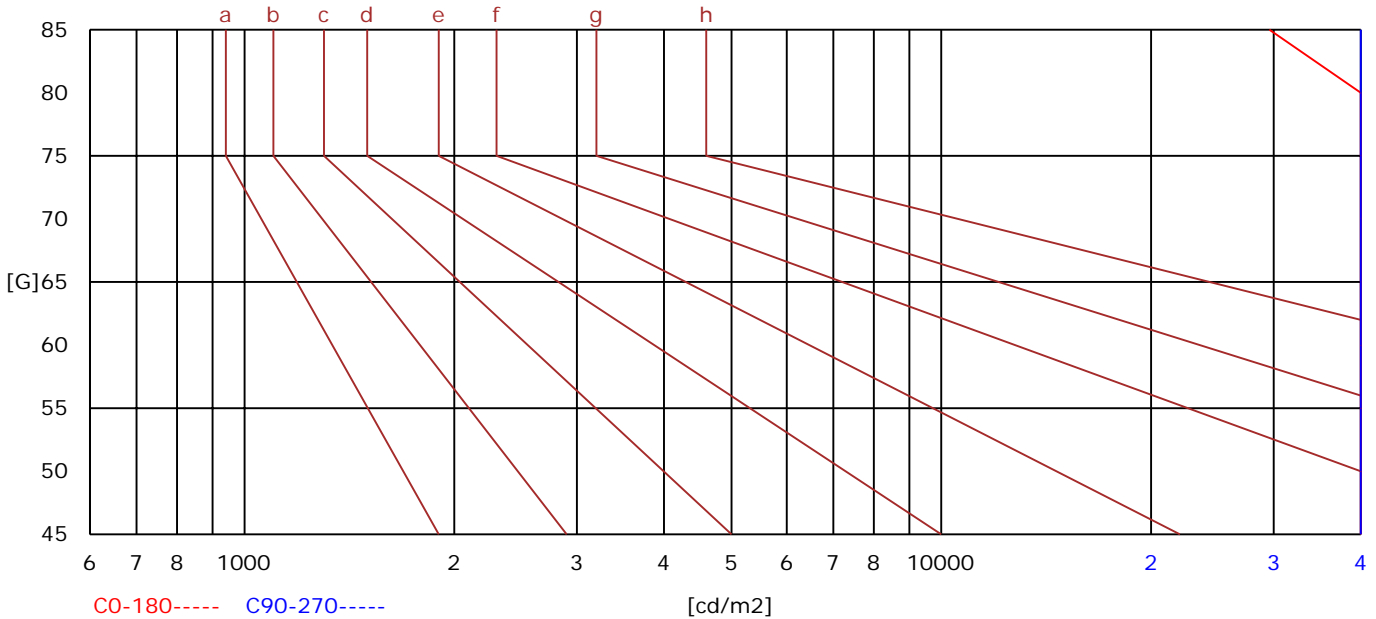
G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-1800B Goniophotometer
 Humidity: 65
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	170404	166564	159168	146526	130326	108666	82358	53819	29578
C90	170876	169409	164225	154100	139767	119914	96423	69950	43679
Dazzle	Quality	Illuminance	---	---	---	---	---	---	---
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



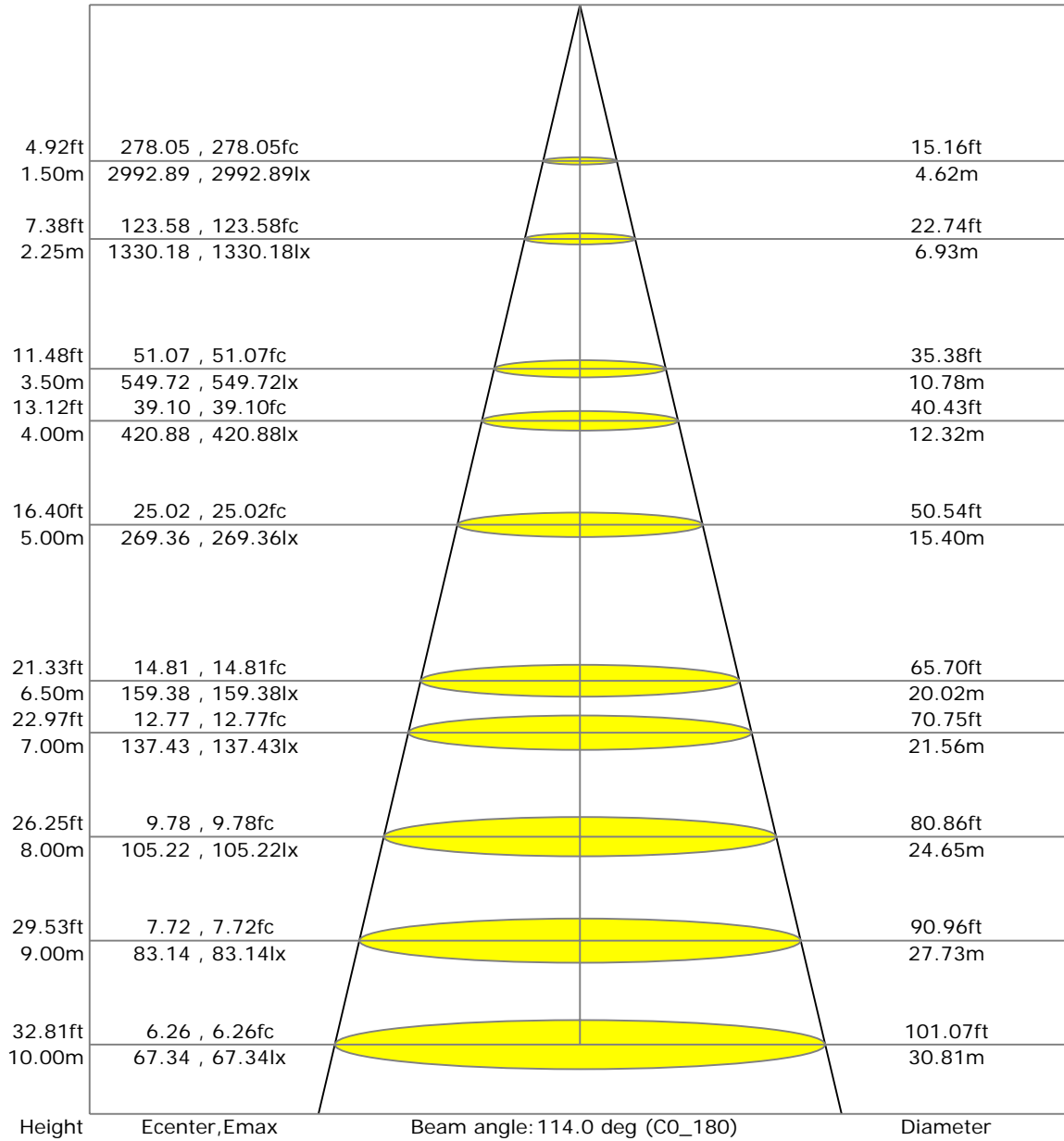
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 C Interval: 30.0 Deg
 Test Speed: High
 Temperature: 25
 Operators:
 Test Date: 2023-12-08 08:44:42

G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-1800B Goniophotometer
 Humidity: 65
 Test Distance: 11.25 m
 Remarks:

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LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg
 C Interval: 30.0 Deg
 Test Speed: High
 Temperature: 25
 Operators:
 Test Date: 2023-12-08 08:44:42

G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-1800B Goniophotometer
 Humidity: 65
 Test Distance: 11.25 m
 Remarks:

Report No.:

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UGR(Unified Glare Rating) TABLE

RHOCC	70	70	50	50	30	70	70	50	50	30
RHOW	70	70	50	50	30	70	70	50	50	30
RHOF	20	20	20	20	20	20	20	20	20	20
Room Size X Y	Viewed Endwise					Viewed Crosswise				
2H 2H	20.36	20.44	20.56	20.62	20.87	20.41	20.49	20.62	20.68	20.92
3H	20.45	20.52	20.66	20.72	20.96	20.49	20.56	20.70	20.75	21.00
4H	20.45	20.52	20.66	20.71	20.96	20.48	20.55	20.69	20.75	21.00
6H	20.42	20.49	20.64	20.69	20.94	20.45	20.52	20.67	20.72	20.98
8H	20.41	20.47	20.63	20.68	20.93	20.44	20.51	20.66	20.71	20.96
12H	20.39	20.46	20.61	20.66	20.92	20.42	20.49	20.64	20.69	20.95
4H 2H	22.10	22.17	22.31	22.37	22.62	22.19	22.26	22.40	22.46	22.71
3H	22.28	22.35	22.50	22.55	22.81	22.38	22.44	22.60	22.65	22.90
4H	22.30	22.37	22.53	22.58	22.84	22.39	22.45	22.62	22.67	22.93
6H	22.29	22.35	22.53	22.57	22.83	22.37	22.43	22.61	22.65	22.92
8H	22.28	22.33	22.52	22.56	22.82	22.35	22.41	22.60	22.64	22.90
12H	22.26	22.31	22.50	22.54	22.81	22.33	22.39	22.58	22.62	22.89
8H 4H	22.24	22.31	22.46	22.51	22.76	22.38	22.45	22.60	22.65	22.90
6H	22.51	22.56	22.76	22.80	23.07	22.69	22.74	22.94	22.98	23.25
8H	22.50	22.54	22.76	22.79	23.07	22.67	22.72	22.94	22.97	23.24
12H	22.48	22.52	22.75	22.78	23.06	22.65	22.69	22.92	22.95	23.23
12H 4H	22.49	22.55	22.74	22.78	23.05	22.69	22.74	22.94	22.97	23.24
6H	22.50	22.55	22.77	22.79	23.07	22.71	22.75	22.97	23.00	23.28

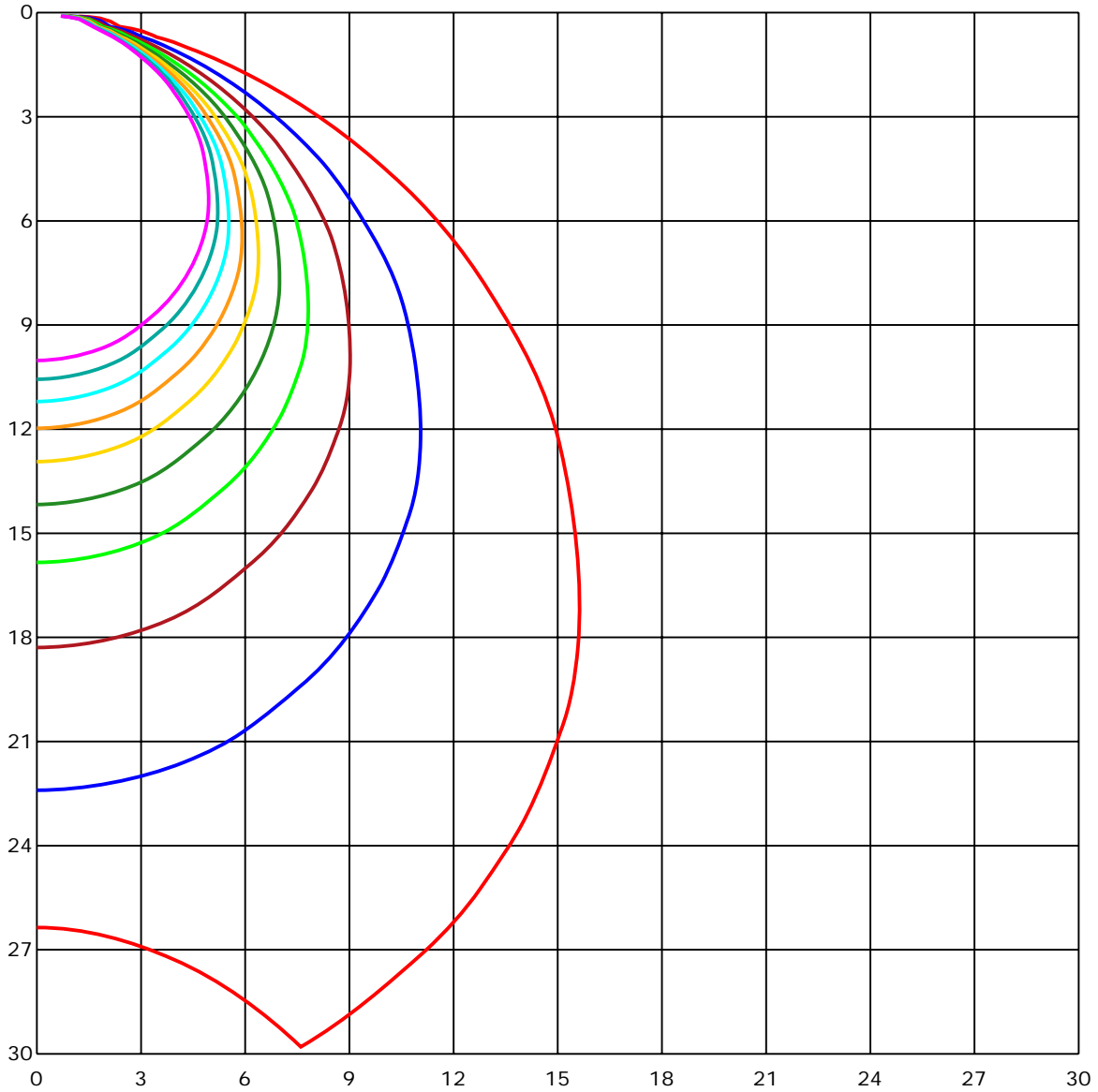
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SPACE ISOLX DIAGRAM



Unit of illumination: lx

- | | |
|--------|--------|
| 67.092 | 33.546 |
| 60.383 | 26.837 |
| 53.673 | 20.128 |
| 46.964 | 13.418 |
| 40.255 | 6.709 |

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma/C	C0	C30	C60	C90	C120	C150	C180	C210	C240	C270
G0	6734.01	6687.94	6697.31	6705.41	6714.77	6724.77	6734.01	6687.94	6697.31	6705.41
G1	6733.38	6684.4	6693.39	6699.97	6709.71	6720.98	6733.89	6686.55	6697.56	6707.81
G2	6727.81	6679.97	6686.3	6693.0	6702.37	6714.14	6732.62	6684.02	6696.42	6708.07
G3	6722.37	6673.01	6678.7	6682.25	6695.03	6707.05	6725.78	6678.96	6693.26	6705.16
G4	6714.27	6664.66	6669.84	6671.62	6684.78	6698.45	6720.22	6671.87	6684.91	6700.98
G5	6705.16	6654.91	6660.23	6660.1	6673.51	6686.68	6711.74	6663.64	6677.06	6693.13
G6	6694.02	6644.91	6648.96	6647.19	6660.1	6673.39	6700.6	6652.38	6669.84	6682.37
G7	6683.39	6635.04	6637.19	6632.38	6644.53	6659.85	6688.2	6642.0	6654.28	6672.12
G8	6672.63	6623.14	6620.48	6614.16	6628.96	6643.14	6673.26	6630.1	6644.03	6660.6
G9	6660.86	6609.47	6602.64	6590.87	6608.08	6623.27	6656.3	6616.69	6632.38	6646.3
G10	6646.18	6593.15	6580.11	6567.71	6583.28	6599.48	6642.13	6601.75	6619.98	6633.27
G11	6625.8	6568.85	6555.43	6540.88	6555.69	6574.29	6623.52	6583.78	6603.15	6618.08
G12	6603.27	6546.7	6530.5	6513.79	6526.7	6546.57	6601.25	6561.76	6582.14	6598.72
G13	6583.28	6522.53	6500.25	6481.27	6496.33	6518.6	6575.18	6539.48	6560.11	6579.23
G14	6558.09	6494.94	6468.86	6446.97	6467.6	6490.0	6548.72	6515.31	6538.73	6554.8
G15	6524.68	6463.8	6434.06	6413.3	6434.82	6459.24	6520.5	6487.21	6513.79	6532.52
G16	6483.67	6424.19	6398.11	6377.23	6400.14	6426.84	6491.14	6459.37	6486.96	6504.55
G17	6437.6	6380.27	6357.49	6339.39	6364.58	6392.42	6459.5	6423.93	6457.47	6472.15
G18	6391.66	6333.19	6318.76	6304.21	6328.13	6360.27	6423.55	6386.85	6419.76	6440.89
G19	6347.49	6293.45	6284.46	6273.2	6297.62	6333.31	6385.84	6347.49	6378.88	6405.33
G20	6305.72	6260.79	6259.15	6243.71	6270.41	6310.28	6347.74	6311.17	6337.36	6367.49
G21	6265.98	6227.13	6228.39	6215.61	6245.86	6280.92	6316.86	6276.61	6303.95	6330.78
G22	6232.32	6190.68	6196.5	6188.91	6219.66	6247.0	6289.4	6239.78	6274.84	6297.12
G23	6195.61	6152.46	6164.48	6159.42	6191.82	6213.46	6253.33	6200.68	6238.01	6263.58
G24	6154.99	6113.48	6125.75	6123.85	6158.28	6171.57	6212.7	6163.09	6197.77	6230.29
G25	6112.72	6072.72	6079.56	6081.33	6116.51	6125.25	6171.19	6119.8	6154.23	6187.26
G26	6063.23	6023.11	6028.3	6028.68	6068.29	6072.98	6122.21	6070.57	6109.43	6148.03
G27	6006.15	5970.84	5972.74	5970.46	6012.23	6017.92	6072.34	6017.03	6056.52	6102.46
G28	5948.82	5915.91	5917.68	5908.95	5955.65	5960.33	6017.29	5961.09	5996.91	6051.84
G29	5897.18	5863.13	5861.87	5847.31	5891.74	5900.47	5961.85	5907.18	5938.57	5995.39
G30	5847.44	5809.09	5808.84	5781.88	5828.46	5839.34	5906.93	5854.02	5882.37	5938.44
G31	5788.84	5754.8	5753.79	5723.79	5769.61	5788.08	5851.49	5802.51	5828.33	5880.73
G32	5725.69	5696.96	5696.83	5666.33	5714.68	5734.93	5799.22	5745.05	5775.43	5826.43
G33	5656.84	5636.59	5637.85	5605.58	5658.99	5680.0	5746.82	5687.85	5716.7	5767.71
G34	5586.85	5573.69	5574.83	5541.03	5596.72	5621.15	5692.02	5630.13	5660.0	5707.46
G35	5518.51	5504.58	5509.52	5470.03	5525.09	5550.78	5633.55	5570.4	5592.16	5645.32
G36	5450.41	5438.52	5438.77	5394.98	5449.4	5476.74	5571.03	5504.84	5529.26	5581.28

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma/C	C0	C30	C60	C90	C120	C150	C180	C210	C240	C270
G37	5391.18	5371.82	5370.43	5312.71	5363.47	5394.22	5502.69	5440.92	5463.07	5516.1
G38	5315.25	5298.41	5287.15	5226.53	5274.62	5308.03	5429.28	5369.79	5398.78	5445.61
G39	5224.37	5209.06	5188.68	5135.15	5178.94	5219.82	5344.36	5285.76	5330.69	5376.5
G40	5132.24	5114.64	5086.93	5028.58	5080.98	5116.04	5248.55	5195.14	5243.99	5299.43
G41	5029.59	5016.05	4978.72	4923.28	4981.5	5010.48	5147.55	5095.66	5150.08	5207.03
G42	4925.05	4907.08	4872.28	4820.13	4877.34	4911.64	5048.83	5002.13	5049.21	5111.86
G43	4816.08	4797.23	4767.48	4716.23	4775.08	4807.48	4949.48	4899.11	4946.95	5011.37
G44	4704.2	4686.74	4666.36	4610.8	4684.33	4706.86	4847.22	4796.09	4841.27	4916.07
G45	4592.07	4578.78	4569.29	4503.35	4591.44	4608.65	4748.37	4695.47	4737.87	4812.03
G46	4479.68	4471.58	4479.55	4407.92	4499.8	4512.08	4653.45	4592.32	4627.89	4710.66
G47	4373.75	4368.31	4384.76	4303.88	4411.08	4406.78	4558.28	4489.43	4524.61	4609.91
G48	4267.94	4265.16	4294.27	4201.62	4320.97	4303.38	4462.72	4386.15	4422.6	4504.99
G49	4164.03	4167.32	4204.41	4102.9	4228.2	4203.9	4370.96	4281.48	4318.82	4401.34
G50	4058.73	4068.48	4115.05	3996.72	4137.96	4104.3	4282.12	4175.8	4213.39	4297.56
G51	3956.09	3965.96	4028.61	3883.06	4042.41	3996.97	4188.84	4077.21	4109.23	4193.02
G52	3850.79	3854.71	3932.68	3755.24	3937.99	3877.24	4095.06	3968.37	4008.36	4086.83
G53	3734.86	3732.58	3826.87	3616.52	3825.1	3744.1	4000.89	3860.03	3900.15	3978.87
G54	3604.25	3598.68	3707.52	3474.52	3704.74	3601.72	3896.86	3736.63	3785.74	3863.7
G55	3462.37	3469.21	3584.25	3335.05	3579.44	3464.9	3784.35	3607.54	3655.38	3741.44
G56	3320.62	3326.32	3459.59	3197.6	3455.41	3323.53	3666.01	3470.34	3516.03	3606.4
G57	3173.05	3188.24	3331.51	3062.81	3324.67	3193.3	3542.23	3330.75	3371.37	3469.58
G58	3040.28	3051.17	3199.75	2933.59	3192.92	3062.94	3417.19	3192.79	3231.14	3330.11
G59	2905.37	2921.57	3057.75	2811.97	3057.75	2934.86	3274.43	3060.79	3096.1	3196.84
G60	2780.07	2784.0	2927.26	2687.05	2927.9	2814.37	3134.45	2928.15	2962.58	3064.33
G61	2658.32	2665.28	2798.55	2557.45	2800.2	2689.58	2992.82	2800.7	2834.62	2936.63
G62	2532.64	2532.52	2670.09	2412.16	2670.09	2547.2	2859.68	2672.49	2714.13	2811.21
G63	2389.25	2387.35	2526.19	2258.38	2530.87	2400.76	2728.18	2537.83	2586.94	2685.4
G64	2242.31	2239.52	2381.15	2107.77	2387.22	2249.9	2584.53	2394.69	2449.74	2545.43
G65	2092.21	2092.96	2237.88	1962.73	2244.59	2106.0	2445.82	2249.65	2304.7	2393.8
G66	1945.39	1952.99	2107.14	1832.75	2101.95	1967.16	2311.28	2112.08	2161.43	2249.27
G67	1813.89	1826.8	1966.4	1696.82	1965.52	1831.87	2189.66	1981.72	2021.2	2105.37
G68	1687.21	1679.74	1839.46	1561.66	1829.46	1684.29	2052.08	1846.93	1884.39	1969.95
G69	1545.58	1547.35	1708.72	1421.17	1691.63	1555.71	1915.14	1709.23	1750.36	1840.47
G70	1410.16	1412.31	1566.21	1305.75	1558.49	1425.85	1770.23	1574.31	1599.5	1708.85
G71	1287.65	1286.89	1418.13	1172.35	1442.05	1288.15	1634.18	1450.15	1456.61	1571.02
G72	1158.05	1161.59	1288.03	1041.23	1289.29	1154.25	1513.69	1313.09	1340.55	1429.27
G73	1030.85	1028.19	1155.39	929.22	1164.63	1034.65	1382.95	1179.31	1203.86	1293.72

C Range: 0 - 360 Deg
 C Interval: 30.0 Deg
 Test Speed: High
 Temperature: 25
 Operators:
 Test Date: 2023-12-08 08:44:42

G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-1800B Goniophotometer
 Humidity: 65
 Test Distance: 11.25 m
 Remarks:

Report No.:

Test Time: 2023-12-08 08:44:42

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 3)

Gamma/C	C300	C330	C360						
G0	6714.77	6724.77	6734.01						
G1	6716.42	6725.66	6733.38						
G2	6715.79	6723.51	6727.81						
G3	6713.0	6719.33	6722.37						
G4	6706.04	6712.88	6714.27						
G5	6698.7	6702.88	6705.16						
G6	6688.2	6694.02	6694.02						
G7	6676.93	6684.02	6683.39						
G8	6666.05	6672.38	6672.63						
G9	6651.87	6657.82	6660.86						
G10	6634.79	6644.15	6646.18						
G11	6617.32	6631.5	6625.8						
G12	6601.25	6616.31	6603.27						
G13	6580.87	6594.16	6583.28						
G14	6557.96	6571.51	6558.09						
G15	6530.88	6548.34	6524.68						
G16	6504.68	6520.37	6483.67						
G17	6477.09	6484.81	6437.6						
G18	6444.44	6444.82	6391.66						
G19	6407.86	6397.73	6347.49						
G20	6367.11	6352.93	6305.72						
G21	6321.29	6312.81	6265.98						
G22	6278.26	6272.82	6232.32						
G23	6243.46	6230.67	6195.61						
G24	6206.25	6190.43	6154.99						
G25	6166.13	6148.79	6112.72						
G26	6125.63	6105.12	6063.23						
G27	6081.83	6053.48	6006.15						
G28	6034.75	5998.56	5948.82						
G29	5978.18	5940.84	5897.18						
G30	5918.57	5887.69	5847.44						
G31	5858.58	5834.15	5788.84						
G32	5803.02	5787.45	5725.69						
G33	5746.82	5732.65	5656.84						
G34	5684.18	5673.8	5586.85						
G35	5621.15	5610.9	5518.51						
G36	5556.85	5544.32	5450.41						

C Range: 0 - 360 Deg
 C Interval: 30.0 Deg
 Test Speed: High
 Temperature: 25
 Operators:
 Test Date: 2023-12-08 08:44:42

G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-1800B Goniophotometer
 Humidity: 65
 Test Distance: 11.25 m
 Remarks:

Report No.:

Test Time: 2023-12-08 08:44:42

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 4)

Gamma/C	C300	C330	C360						
G37	5490.41	5474.08	5391.18						
G38	5419.66	5404.47	5315.25						
G39	5344.1	5335.12	5224.37						
G40	5264.24	5252.85	5132.24						
G41	5181.47	5155.14	5029.59						
G42	5075.66	5054.91	4925.05						
G43	4970.87	4943.03	4816.08						
G44	4871.26	4836.08	4704.2						
G45	4764.07	4724.45	4592.07						
G46	4656.99	4611.94	4479.68						
G47	4550.18	4505.37	4373.75						
G48	4442.09	4396.78	4267.94						
G49	4336.54	4291.36	4164.03						
G50	4228.96	4184.79	4058.73						
G51	4122.14	4083.79	3956.09						
G52	4020.64	3982.04	3850.79						
G53	3916.22	3878.89	3734.86						
G54	3803.84	3765.11	3604.25						
G55	3671.58	3638.04	3462.37						
G56	3529.96	3495.53	3320.62						
G57	3380.61	3352.39	3173.05						
G58	3240.0	3211.4	3040.28						
G59	3105.34	3071.93	2905.37						
G60	2978.4	2937.01	2780.07						
G61	2856.26	2809.94	2658.32						
G62	2739.7	2688.95	2532.64						
G63	2615.54	2571.12	2389.25						
G64	2469.61	2428.23	2242.31						
G65	2318.25	2275.59	2092.21						
G66	2164.09	2128.91	1945.39						
G67	2025.76	1984.25	1813.89						
G68	1894.26	1860.09	1687.21						
G69	1756.31	1734.54	1545.58						
G70	1606.33	1596.84	1410.16						
G71	1474.2	1453.32	1287.65						
G72	1354.47	1331.56	1158.05						
G73	1224.75	1203.23	1030.85						

C Range: 0 - 360 Deg
 C Interval: 30.0 Deg
 Test Speed: High
 Temperature: 25
 Operators:
 Test Date: 2023-12-08 08:44:42

G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-1800B Goniophotometer
 Humidity: 65
 Test Distance: 11.25 m
 Remarks:

