

Report No.:

Test Time: 2025/1/7 16:19:56

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP115CT075H78-38°-15W
Lamp Type:
Luminous Width: 74 mm
Luminous Length: 74 mm
Luminous Height: 57 mm

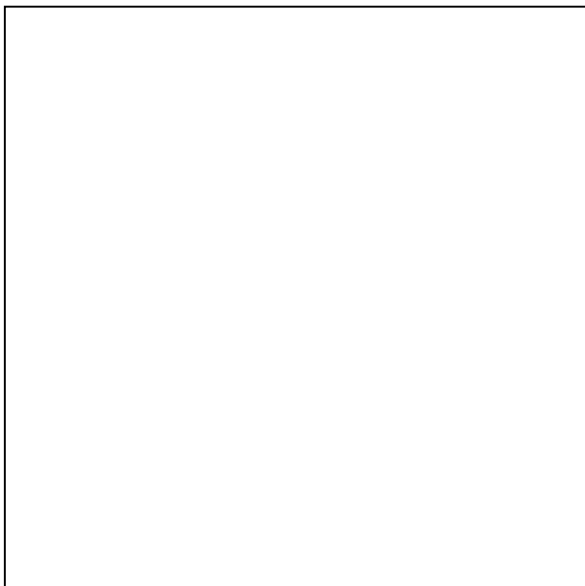
Voltage(V): 228.00 V
Current(A): 0.0700 A
Power(W): 15.25 W
Power Factor: 0.9450
Lamp Luminous Flux: 1474.85

Photometric Results

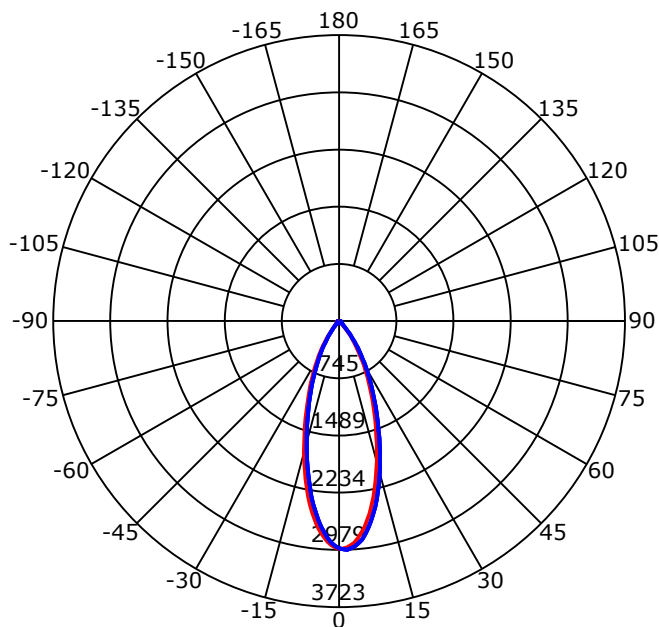
CIE Class: Direct
Luminaire Luminous Flux: 1474.845 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 96.69 lm/W
Beam Angle(50%) C0-180,C90-270: 36.4,36.5
Field Angle(10%) C0-180,C90-270: 71.1,71.4
S/MH C0-180,C90-270: 0.611,0.611

Max. Intensity: 2978.57 cd
Max.Intensity Angle: C=90 Gamma=2
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 2965.19 cd
Effective Luminous Flux: 1314.09 lm
ERP(ϕ use)(120deg): 1451.18 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 36.4 deg,36.5 deg

C0-180 — C90-270 —

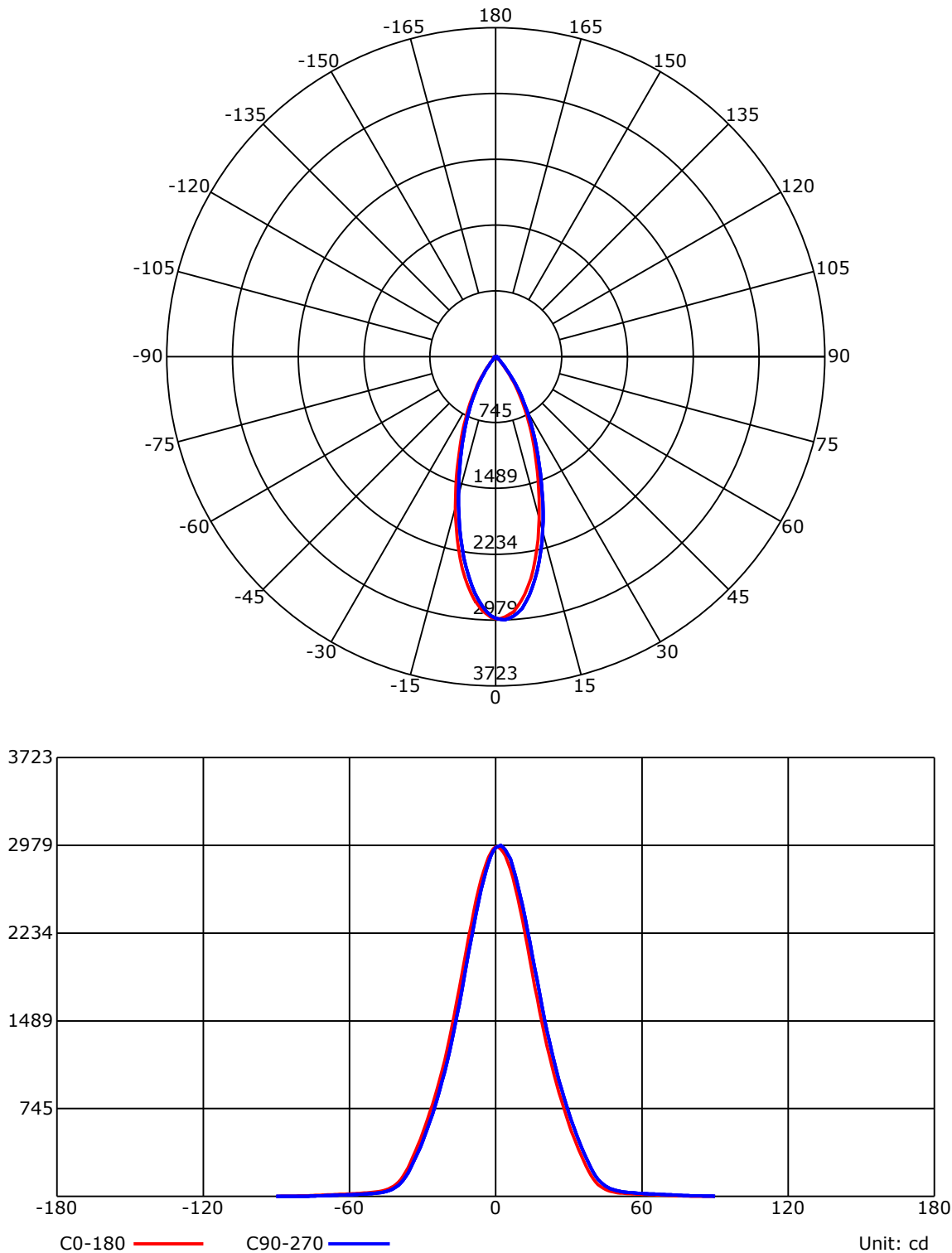
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/1/7 16:19:56

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.78 m
Remarks:

Report No.:

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Luminous Intensity Distribution Curve



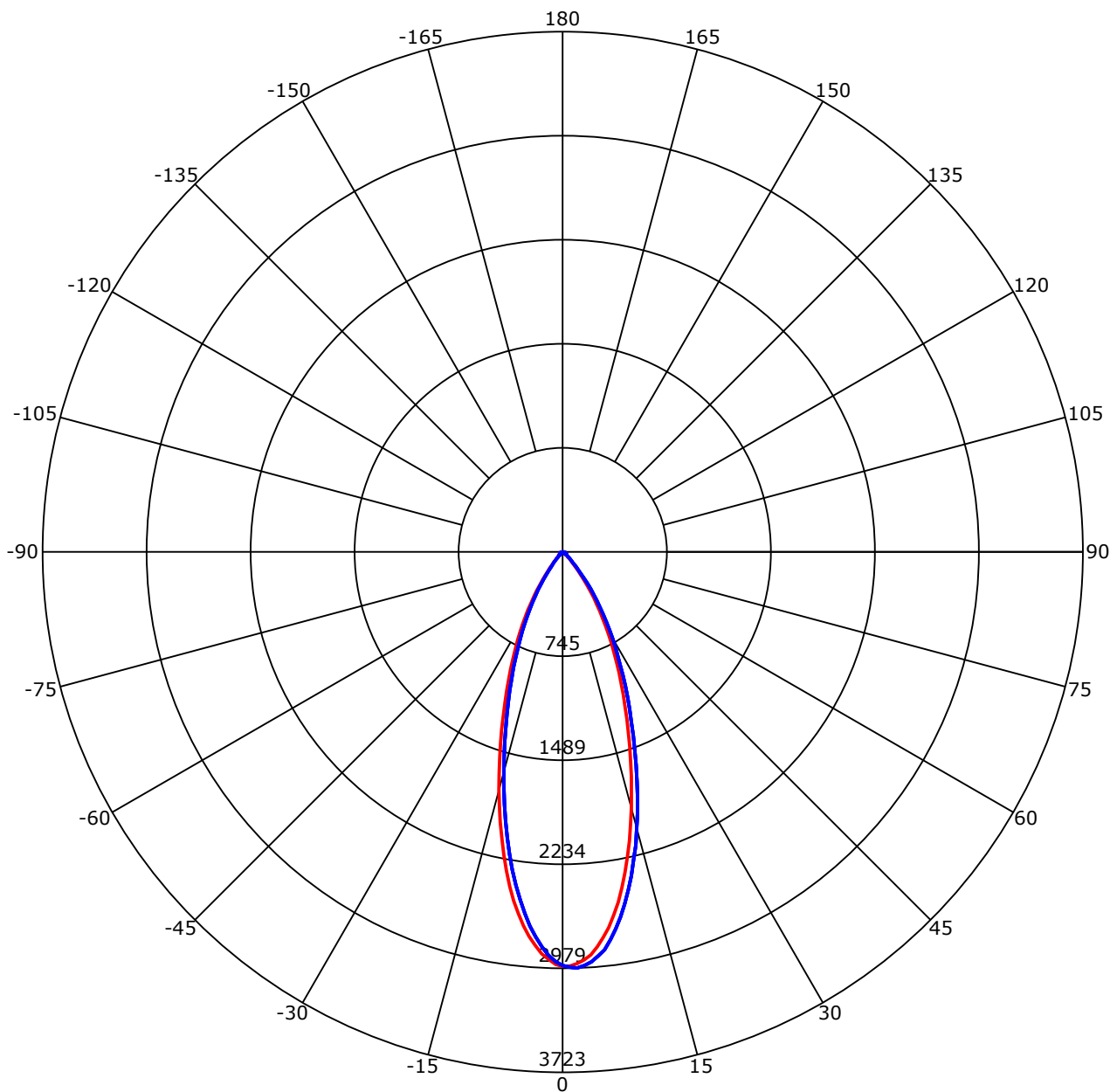
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Temperature: 25
Operators: QC01
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Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/1/7 16:19:56

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.78 m
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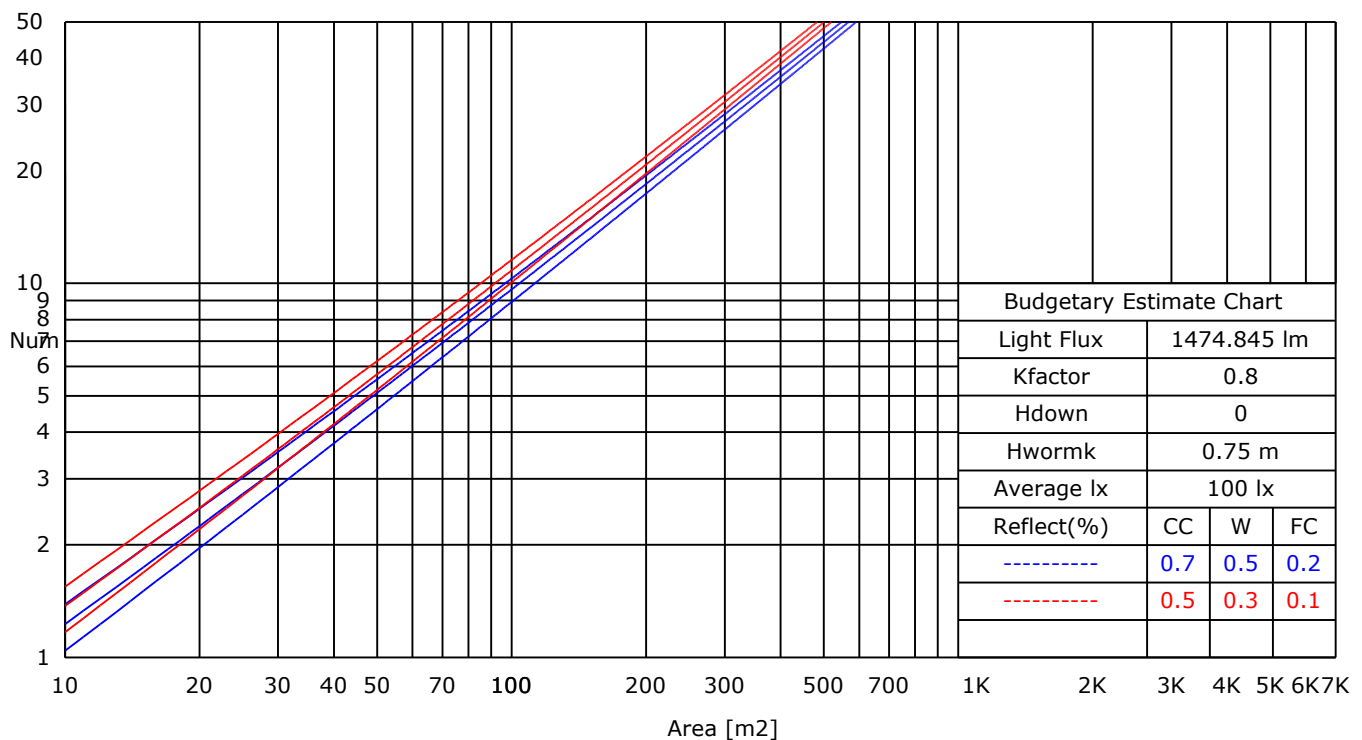
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UTILIZATION FACTORS TABLE

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	1.01	0.98	0.97	0.99	0.97	0.95	0.96	0.93	0.91	0.92	0.89	0.86	0.86	0.83	0.80	0.75
2	0.96	0.94	0.93	0.95	0.93	0.91	0.92	0.89	0.87	0.88	0.85	0.82	0.83	0.80	0.77	0.72
3	0.92	0.90	0.89	0.91	0.89	0.87	0.89	0.86	0.83	0.85	0.82	0.79	0.81	0.77	0.74	0.70
4	0.89	0.87	0.86	0.88	0.86	0.84	0.86	0.83	0.80	0.83	0.79	0.76	0.79	0.75	0.71	0.67
5	0.86	0.84	0.83	0.85	0.83	0.81	0.83	0.80	0.77	0.80	0.76	0.73	0.77	0.72	0.69	0.65
6	0.83	0.82	0.81	0.82	0.80	0.79	0.80	0.77	0.75	0.78	0.74	0.71	0.75	0.70	0.67	0.63
7	0.81	0.79	0.78	0.80	0.78	0.76	0.78	0.75	0.73	0.75	0.72	0.69	0.73	0.68	0.65	0.61
8	0.78	0.77	0.76	0.78	0.76	0.74	0.76	0.73	0.71	0.73	0.70	0.67	0.71	0.66	0.63	0.60
9	0.76	0.75	0.74	0.75	0.74	0.72	0.74	0.71	0.69	0.71	0.68	0.65	0.69	0.65	0.62	0.58
10	0.74	0.73	0.72	0.74	0.72	0.71	0.72	0.69	0.67	0.70	0.66	0.64	0.67	0.63	0.60	0.57

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



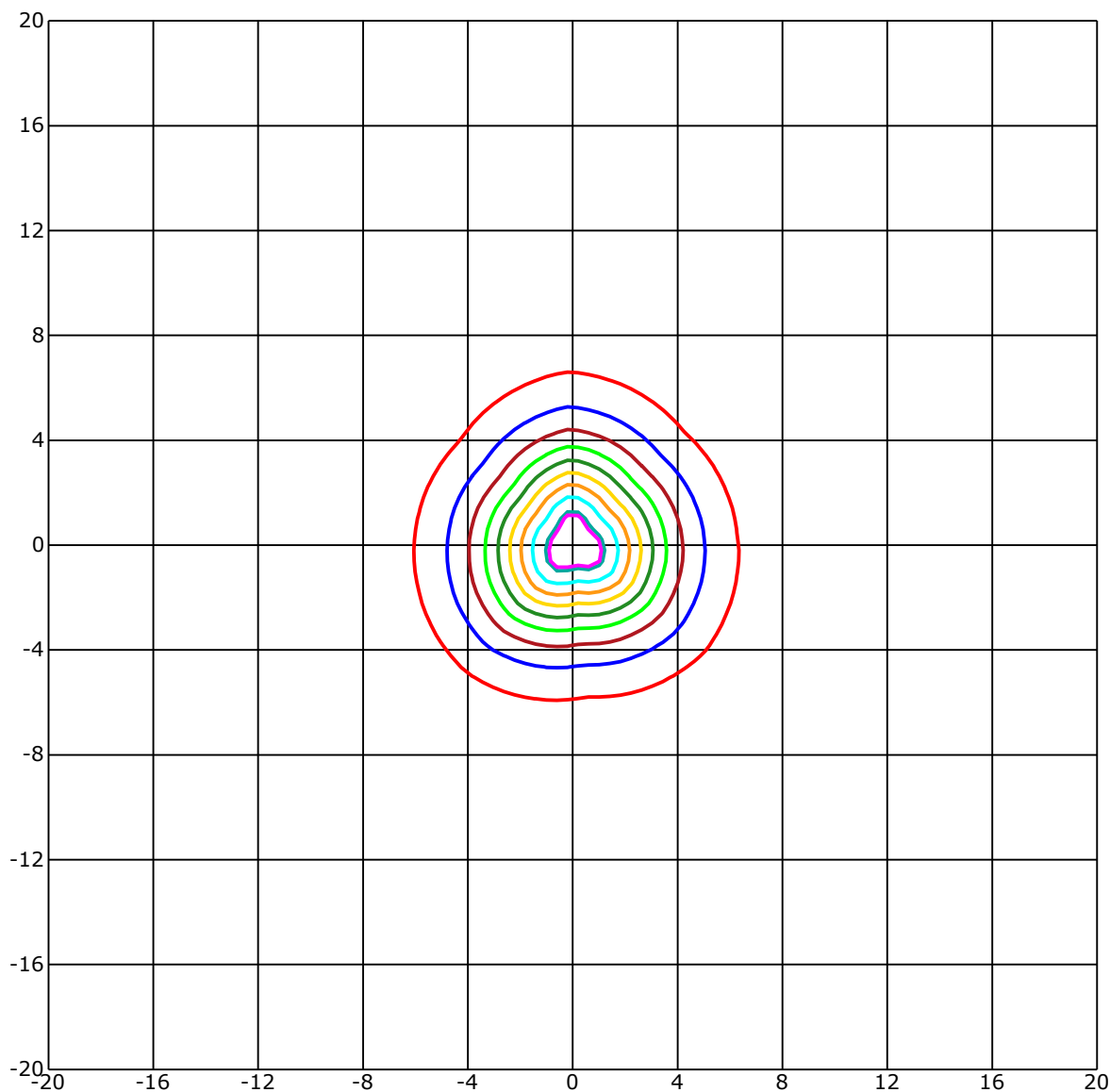
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.78 m
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ISOLX DIAGRAM



C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/1/7 16:19:56

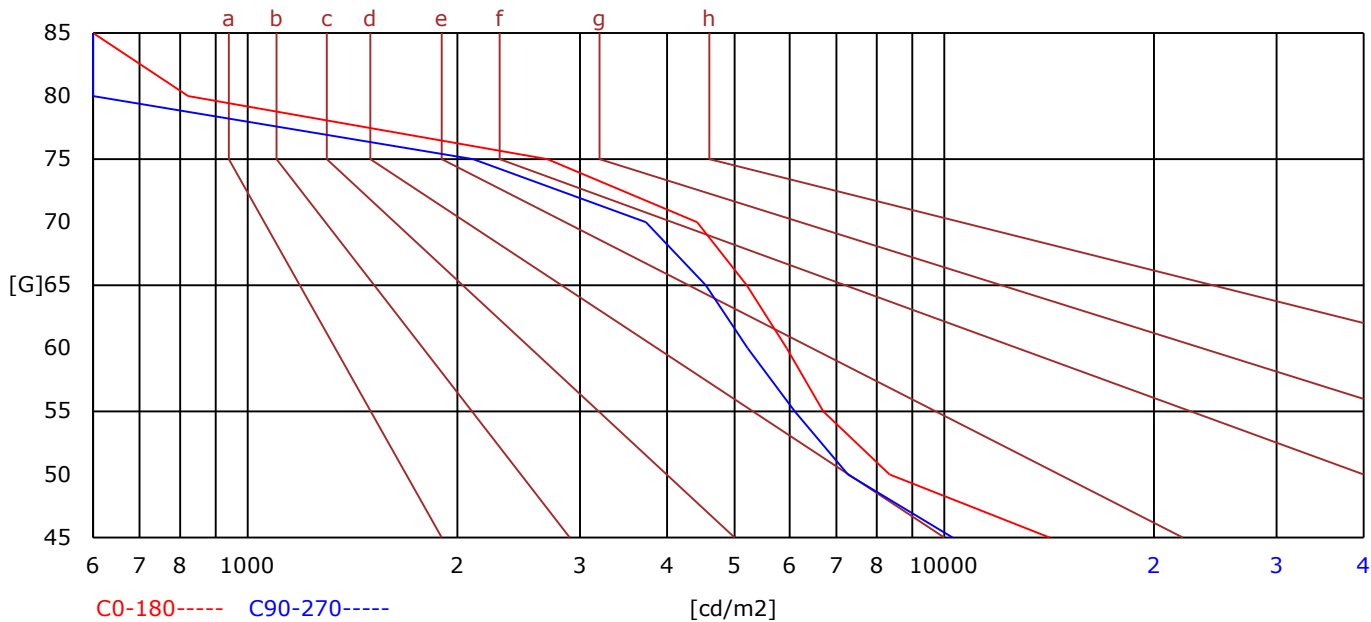
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	14163	8345	6703	5943	5204	4418	2692	822	0
C90	10281	7274	6103	5221	4549	3731	2108	580	0
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



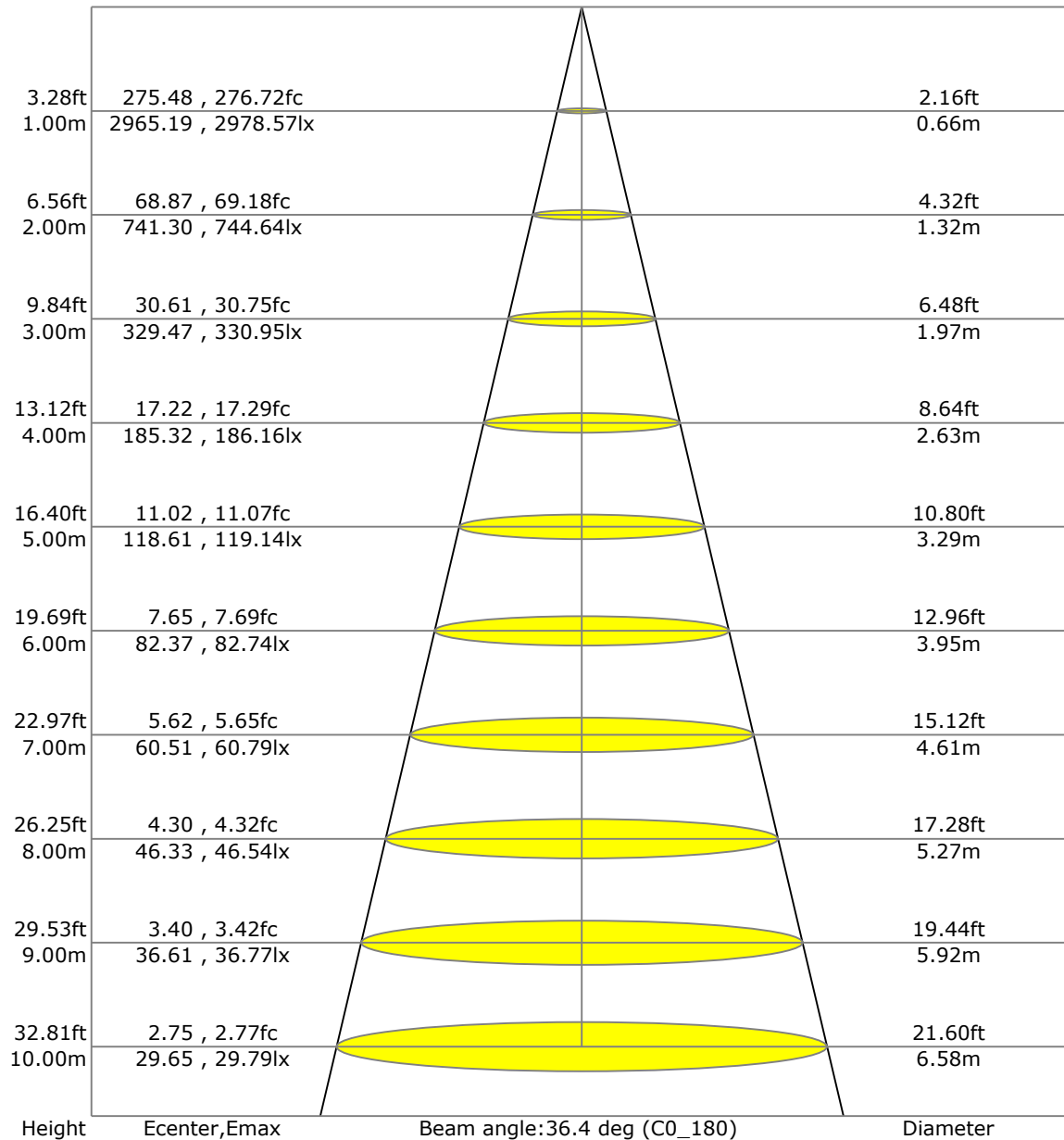
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LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 25
 Operators: QC01
 Test Date: 2025/1/7 16:19:56

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 G Interval: 1.0 Deg
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 Humidity: 60
 Test Distance: 6.78 m
 Remarks:

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UGR(Unified Glare Rating) TABLE

RHOCC	70	70	50	50	30	70	70	50	50	30
RHOW	50	30	50	30	30	50	30	50	30	30
RHOF	20	20	20	20	20	20	20	20	20	20
Room Size X Y	Viewed Endwise					Viewed Crosswise				
2H 2H	12.42	12.47	12.62	12.66	12.90	12.59	12.64	12.79	12.83	13.07
3H	12.42	12.47	12.63	12.67	12.91	12.58	12.64	12.79	12.83	13.07
4H	12.41	12.46	12.62	12.66	12.91	12.57	12.62	12.78	12.82	13.07
6H	12.40	12.45	12.61	12.65	12.90	12.55	12.61	12.77	12.81	13.06
8H	12.39	12.44	12.61	12.64	12.90	12.54	12.60	12.76	12.80	13.05
12H	12.38	12.43	12.60	12.64	12.89	12.53	12.59	12.76	12.79	13.05
4H 2H	12.64	12.70	12.85	12.89	13.14	13.02	13.07	13.23	13.26	13.51
3H	12.66	12.71	12.88	12.92	13.17	13.02	13.08	13.25	13.28	13.54
4H	12.65	12.70	12.88	12.91	13.17	13.01	13.06	13.24	13.27	13.53
6H	12.63	12.68	12.87	12.90	13.16	12.99	13.04	13.22	13.26	13.52
8H	12.62	12.67	12.86	12.89	13.16	12.97	13.03	13.22	13.25	13.52
12H	12.60	12.65	12.85	12.89	13.15	12.96	13.01	13.21	13.24	13.51
8H 4H	12.64	12.69	12.85	12.89	13.15	13.11	13.17	13.33	13.37	13.62
6H	12.61	12.66	12.86	12.90	13.17	13.10	13.15	13.36	13.39	13.66
8H	12.60	12.64	12.86	12.89	13.16	13.09	13.13	13.35	13.38	13.65
12H	12.58	12.62	12.85	12.88	13.16	13.07	13.11	13.34	13.37	13.65
12H 4H	12.62	12.67	12.87	12.90	13.17	13.18	13.23	13.42	13.46	13.73
6H	12.60	12.64	12.86	12.89	13.16	13.16	13.20	13.42	13.45	13.72

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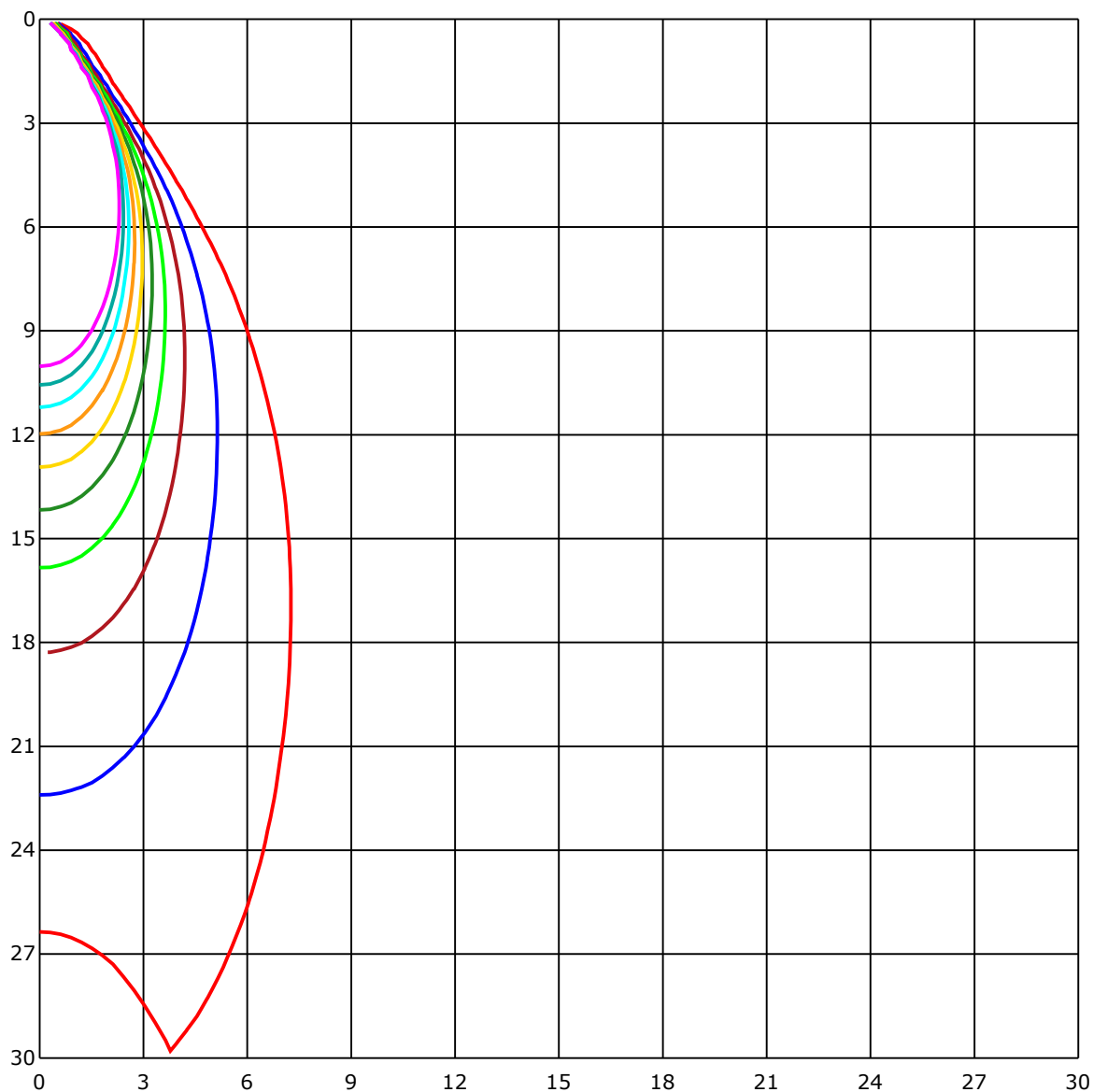
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.78 m
Remarks:

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SPACE ISOLX DIAGRAM



29.541	14.77
26.587	11.816
23.633	8.862
20.679	5.908
17.724	2.954

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G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.78 m
Remarks:

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	2965.19	2956.46	2958.48	2950.99	2965.19	2956.46	2958.48	2950.99	2965.19	
G1	2962.11	2931.96	2970.62	2924.56	2950.34	2958.94	2930.62	2962.76	2962.11	
G2	2946.71	2902.68	2978.57	2884.06	2915.96	2958.11	2888.38	2967.86	2946.71	
G3	2922.03	2856.34	2962.16	2836.71	2877.76	2932.83	2829.03	2953.19	2922.03	
G4	2889.57	2803.29	2939.31	2775.16	2821.22	2904.79	2761.55	2921.15	2889.57	
G5	2835.7	2732.5	2902.26	2706.3	2760.49	2857.35	2686.95	2886.26	2835.7	
G6	2773.6	2662.08	2862.82	2618.54	2689.01	2793.64	2600.16	2830.69	2773.6	
G7	2706.39	2574.6	2794.37	2526.84	2607.42	2722.98	2504.59	2774.29	2706.39	
G8	2621.76	2487.3	2723.31	2428.93	2521.55	2642.68	2407.55	2696.51	2621.76	
G9	2538.28	2389.02	2644.06	2332.3	2423.41	2552.9	2302.28	2612.57	2538.28	
G10	2439.68	2288.31	2557.64	2220.6	2315.75	2459.36	2192.46	2524.49	2439.68	
G11	2336.34	2183.27	2463.81	2111.83	2210.99	2359.93	2079.93	2424.33	2336.34	
G12	2227.4	2076.3	2366.87	1994.02	2097.31	2251.67	1967.91	2319.15	2227.4	
G13	2122.27	1962.71	2257.97	1879.05	1987.08	2140.11	1852.71	2205.79	2122.27	
G14	2008.08	1858.27	2160.98	1761.97	1875.14	2033.92	1737.24	2094.73	2008.08	
G15	1897.48	1744.55	2045.82	1649.94	1764.36	1919.5	1627.42	1982.71	1897.48	
G16	1784.49	1639.14	1940.23	1538.42	1650.4	1807.89	1522.2	1866.41	1784.49	
G17	1679.09	1532.27	1830.65	1435.55	1541.41	1698.85	1418.86	1753.19	1679.09	
G18	1567.75	1433.02	1721.7	1334.37	1438.35	1593.91	1319.11	1643.23	1567.75	
G19	1469.43	1336.58	1612.8	1239.77	1340.03	1490.71	1226.21	1534.43	1469.43	
G20	1373.4	1247.77	1506.16	1152.98	1244.46	1393.12	1138.55	1433.3	1373.4	
G21	1279.85	1159.55	1409.35	1071.16	1152.11	1296.45	1057.27	1332.67	1279.85	
G22	1190.72	1079.52	1314.1	993.01	1068.4	1207.18	976.92	1242.34	1190.72	
G23	1107.7	997.38	1225.61	916.93	991.49	1120.16	901.16	1161.99	1107.7	
G24	1026.89	921.94	1142.36	845.4	917.3	1039.02	829.32	1075.39	1026.89	
G25	952.14	848.71	1061.04	778.75	846.65	957.43	761.51	997.33	952.14	
G26	877.95	779.39	982.25	714.07	779.67	884.11	696.84	924.38	877.95	
G27	809.23	712.65	907.92	652.71	715.31	814.28	635.47	856.07	809.23	
G28	742.57	650.64	838.65	592.95	654.08	748.18	577.78	790.79	742.57	
G29	678.17	590.19	772.59	536.13	595.34	683.04	521.83	729.98	678.17	
G30	614.32	533.69	709.2	481.57	538.66	621.35	466.4	667.65	614.32	
G31	555.25	481.93	646.09	430.95	482.44	562.06	415.88	609.04	555.25	
G32	499.95	435.55	586.46	381.81	429.85	505.79	368.16	549.92	499.95	
G33	447.5	389.67	529.79	335.39	381.49	453.34	324.22	494.48	447.5	
G34	397.72	346.83	478.21	289.6	335.25	404.71	282.06	442.77	397.72	
G35	350.83	303.48	426.91	243.68	289.42	358.69	239.27	394.0	350.83	
G36	306.24	259.4	379.42	200.93	244.64	314.29	199.09	345.91	306.24	

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C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

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G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

Test Distance: 6.78 m

Remarks:

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	261.05	218.63	332.67	164.11	204.97	269.74	164.98	296.13	261.05	
G38	216.97	183.28	286.84	133.91	170.86	229.34	136.07	248.87	216.97	
G39	179.6	153.21	242.85	109.77	143.19	194.49	112.58	206.81	179.6	
G40	148.39	128.39	205.52	90.24	120.25	164.8	93.82	171.19	148.39	
G41	121.82	107.38	172.61	75.11	101.5	139.97	78.47	141.4	121.82	
G42	100.03	89.78	145.03	62.56	86.14	118.83	65.73	116.99	100.03	
G43	83.02	75.57	122.09	52.63	74.24	101.08	55.62	97.91	83.02	
G44	69.32	64.17	103.61	45.05	64.49	86.47	47.49	82.19	69.32	
G45	58.56	54.84	88.76	39.81	57.14	74.47	41.28	70.42	58.56	
G46	49.92	47.03	76.86	35.21	50.89	64.95	36.45	61.37	49.92	
G47	43.26	40.91	66.65	31.95	45.97	57.32	32.59	54.56	43.26	
G48	37.92	36.09	58.7	29.33	42.15	51.16	29.7	48.77	37.92	
G49	33.97	32.27	52.45	27.35	38.98	45.78	27.31	44.13	33.97	
G50	30.75	29.37	46.89	25.6	36.5	41.79	25.37	40.68	30.75	
G51	28.41	26.98	42.8	24.04	34.52	38.52	23.77	37.97	28.41	
G52	26.62	25.33	39.53	22.71	32.5	35.9	22.39	35.9	26.62	
G53	24.96	23.63	36.68	21.51	30.8	33.65	21.05	33.74	24.96	
G54	23.49	22.48	34.43	20.13	29.19	31.95	20.0	32.04	23.49	
G55	22.29	21.05	32.59	19.17	27.95	30.06	18.89	30.52	22.29	
G56	21.05	19.95	31.03	17.97	26.39	28.59	17.93	29.05	21.05	
G57	20.13	19.08	29.1	16.96	25.19	26.94	17.01	27.58	20.13	
G58	18.98	18.11	28.09	16.0	23.81	25.83	15.95	26.39	18.98	
G59	17.97	17.19	26.43	15.22	22.66	24.59	15.03	25.28	17.97	
G60	17.15	16.27	25.28	14.3	21.47	23.31	14.3	24.04	17.15	
G61	16.23	15.35	24.04	13.51	20.5	22.16	13.33	22.94	16.23	
G62	15.49	14.57	22.85	12.78	19.4	21.05	12.64	21.83	15.49	
G63	14.57	13.79	21.88	11.95	18.48	19.95	11.81	20.96	14.57	
G64	13.79	12.96	20.87	11.22	17.56	18.98	11.17	19.86	13.79	
G65	13.06	12.04	19.77	10.53	16.59	17.97	10.39	18.85	13.06	
G66	12.23	11.26	18.8	9.75	15.58	17.19	9.61	17.97	12.23	
G67	11.54	10.43	17.97	9.06	14.85	16.13	8.78	16.96	11.54	
G68	10.8	9.79	17.1	8.41	13.84	15.31	8.14	16.04	10.8	
G69	9.93	8.96	15.95	7.68	13.06	14.34	7.4	15.22	9.93	
G70	9.15	8.27	15.08	6.99	12.14	13.56	6.57	14.25	9.15	
G71	8.46	7.31	14.2	6.11	11.31	12.6	5.84	13.33	8.46	
G72	7.72	6.44	13.33	5.47	10.43	11.72	5.15	12.5	7.72	
G73	6.76	5.61	12.32	4.69	9.75	10.99	4.37	11.49	6.76	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

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G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

Test Distance: 6.78 m

Remarks:

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Humidity: 60
Test Distance: 6.78 m
Remarks: