

Report No.:

Test Time: 2025/2/7 16:16:23

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP112CT085H96-24°-25W
Lamp Type:
Luminous Width: 58 mm
Luminous Length: 58 mm
Luminous Height: 45 mm

Voltage(V): 220.60 V
Current(A): 0.1130 A
Power(W): 24.43 W
Power Factor: 0.9780
Lamp Luminous Flux: 2216.91

Photometric Results

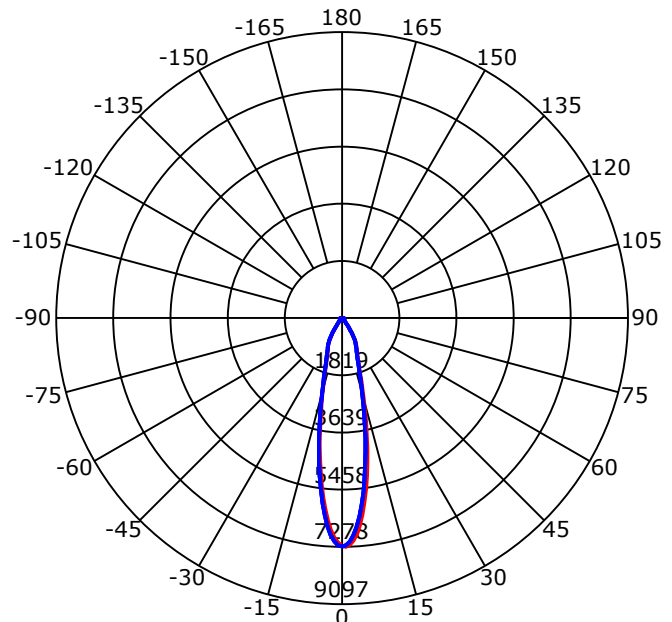
CIE Class: Direct
Luminaire Luminous Flux: 2216.91 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 90.74 lm/W
Beam Angle(50%) C0-180,C90-270: 23.5,23.1
Field Angle(10%) C0-180,C90-270: 61.7,61.6
S/MH C0-180,C90-270: 0.425,0.389

Max. Intensity: 7277.62 cd
Max.Intensity Angle: C=315 Gamma=1
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 7251.99 cd
Effective Luminous Flux: 1791.72 lm
ERP(ϕ use)(120deg): 2145.83 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 23.5 deg,23.1 deg

C0-180 — C90-270 —

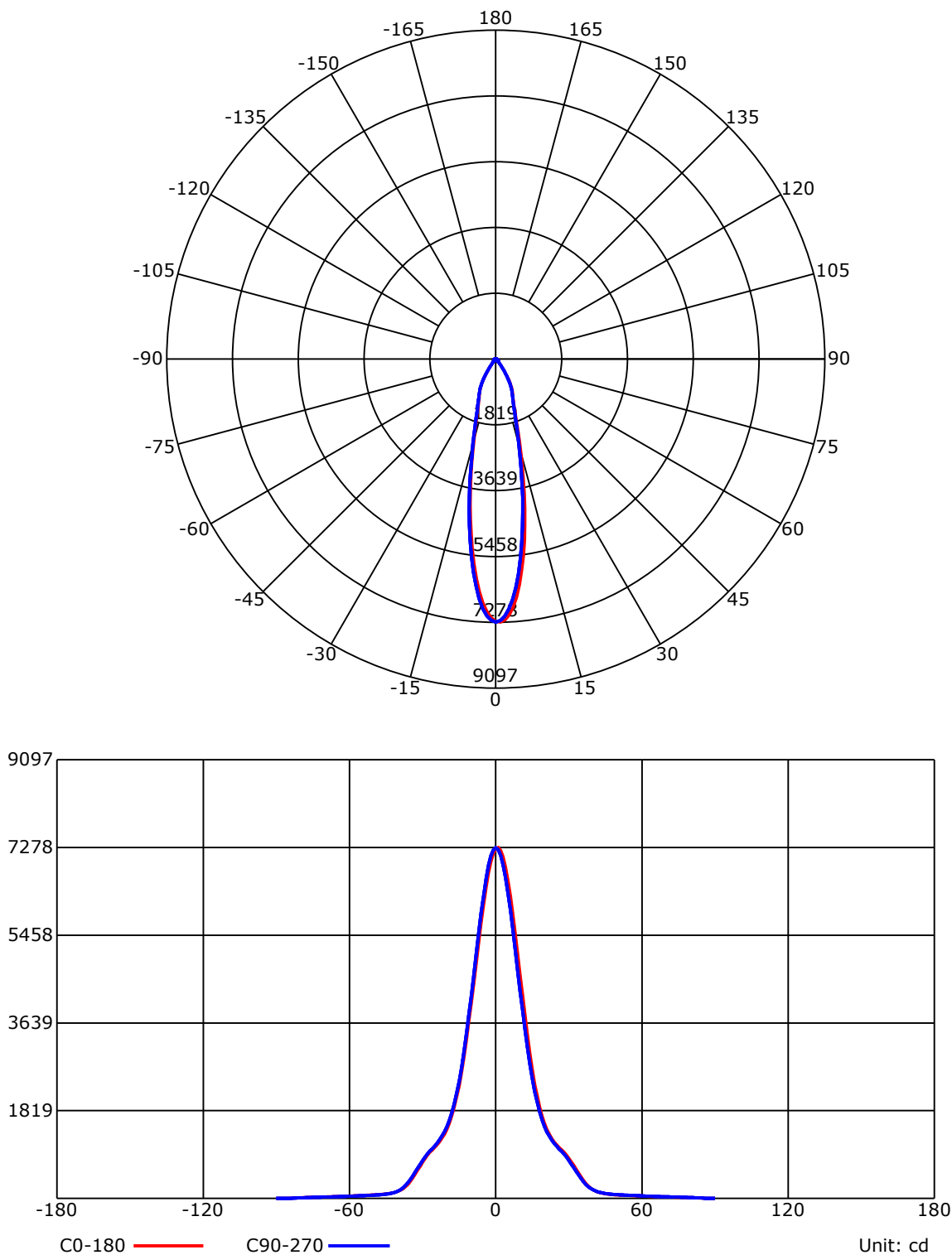
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/2/7 16:16:23

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

Report No.:

Test Time: 2025/2/7 16:16:23

Luminous Intensity Distribution Curve



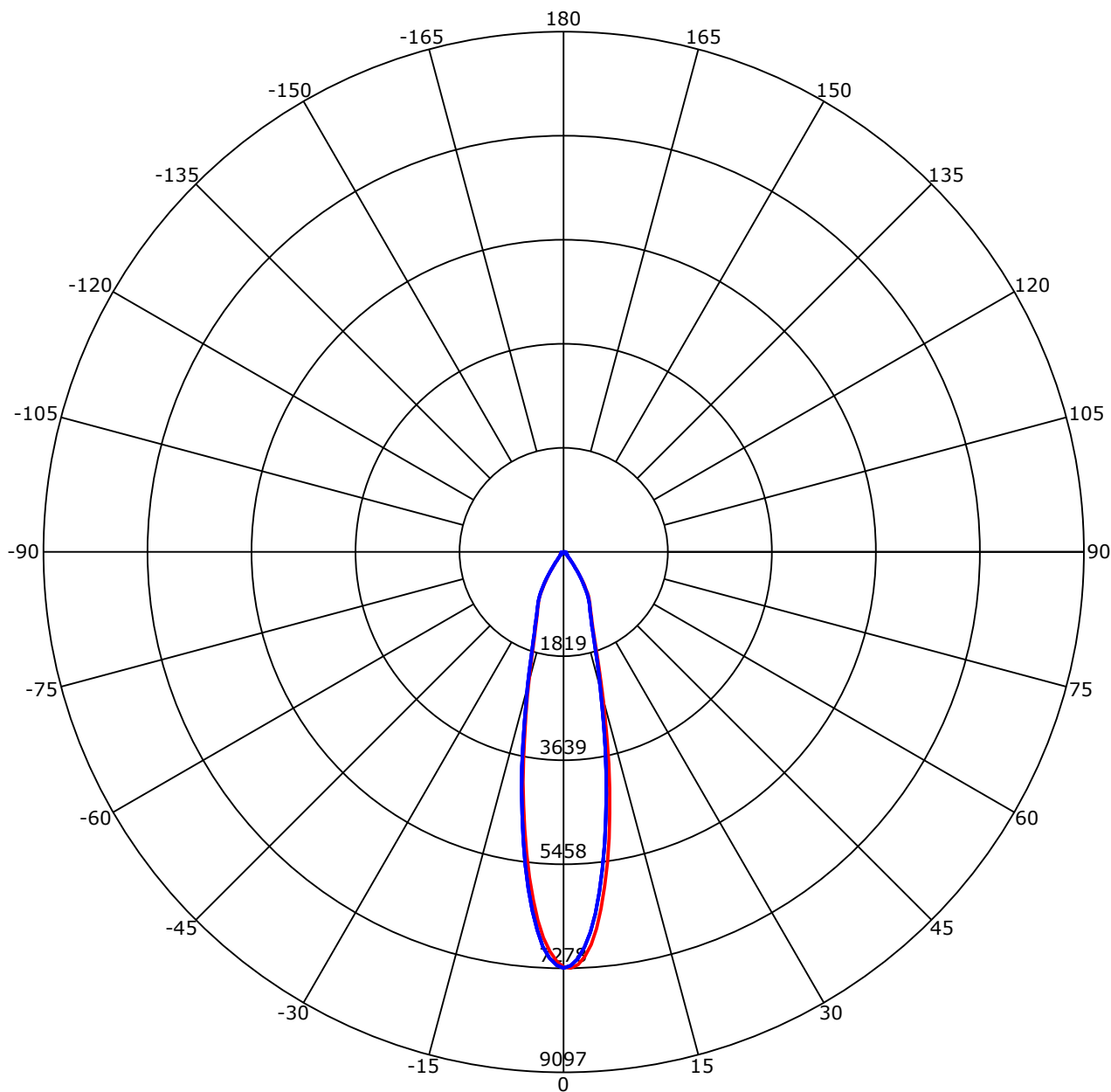
C Range: 0 - 360 Deg
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Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/2/7 16:16:23

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

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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: 2025/2/7 16:16:23

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

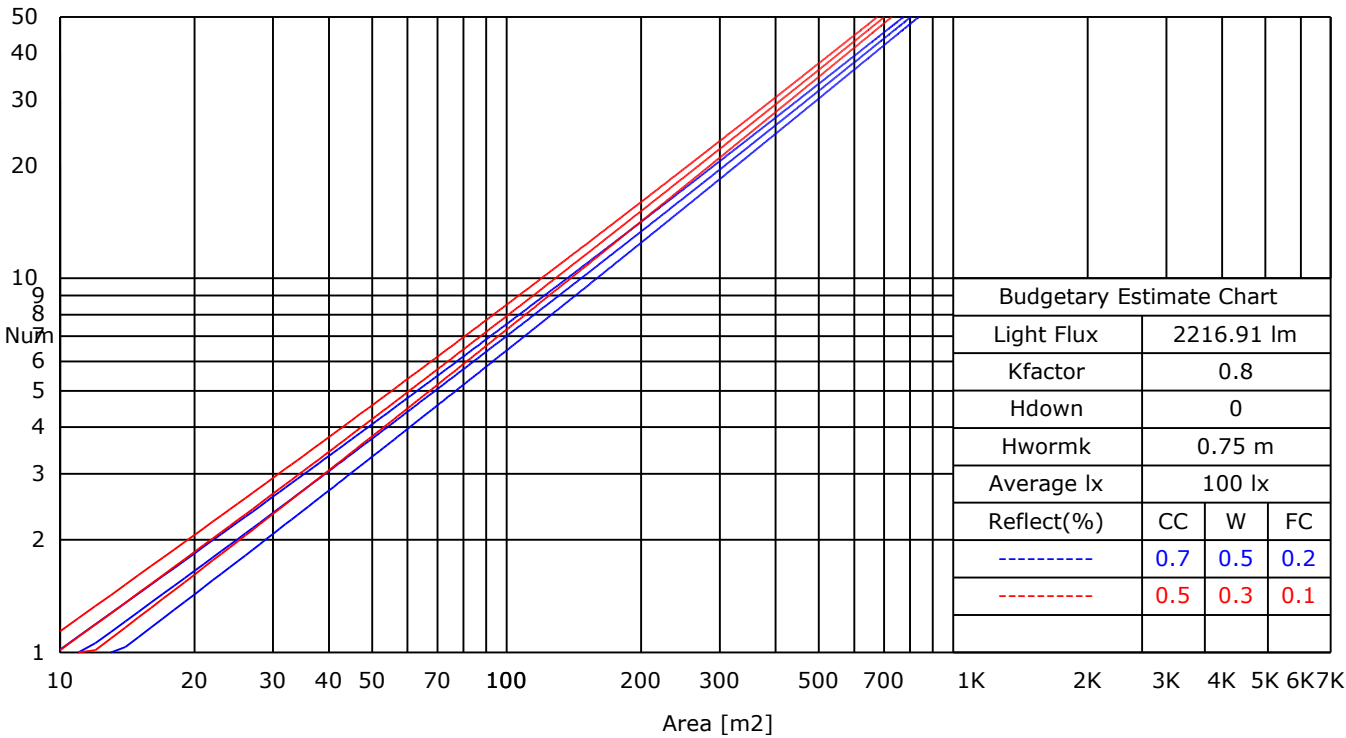
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UTILIZATION FACTORS TABLE

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	COEFFCIENTS 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	0.93	0.91	0.88	0.93	0.89	0.87	0.90	0.86	0.83	0.86	0.82	0.79	0.80	0.77	0.73	0.68
2	0.88	0.86	0.84	0.88	0.85	0.82	0.86	0.82	0.79	0.82	0.78	0.75	0.78	0.74	0.70	0.65
3	0.84	0.82	0.80	0.84	0.81	0.79	0.82	0.78	0.75	0.79	0.75	0.72	0.75	0.71	0.67	0.63
4	0.81	0.79	0.77	0.80	0.78	0.76	0.79	0.75	0.72	0.76	0.72	0.69	0.73	0.68	0.65	0.60
5	0.78	0.76	0.75	0.77	0.75	0.73	0.76	0.72	0.70	0.74	0.69	0.66	0.71	0.66	0.62	0.58
6	0.75	0.73	0.72	0.75	0.72	0.71	0.73	0.70	0.67	0.71	0.67	0.64	0.69	0.64	0.60	0.57
7	0.73	0.71	0.70	0.72	0.70	0.68	0.71	0.68	0.65	0.69	0.65	0.62	0.67	0.62	0.58	0.55
8	0.71	0.69	0.68	0.70	0.68	0.66	0.69	0.66	0.63	0.67	0.63	0.60	0.65	0.60	0.57	0.53
9	0.69	0.67	0.66	0.68	0.66	0.65	0.67	0.64	0.62	0.65	0.61	0.58	0.63	0.59	0.55	0.52
10	0.67	0.65	0.65	0.66	0.64	0.63	0.65	0.62	0.60	0.64	0.60	0.57	0.62	0.57	0.54	0.51

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



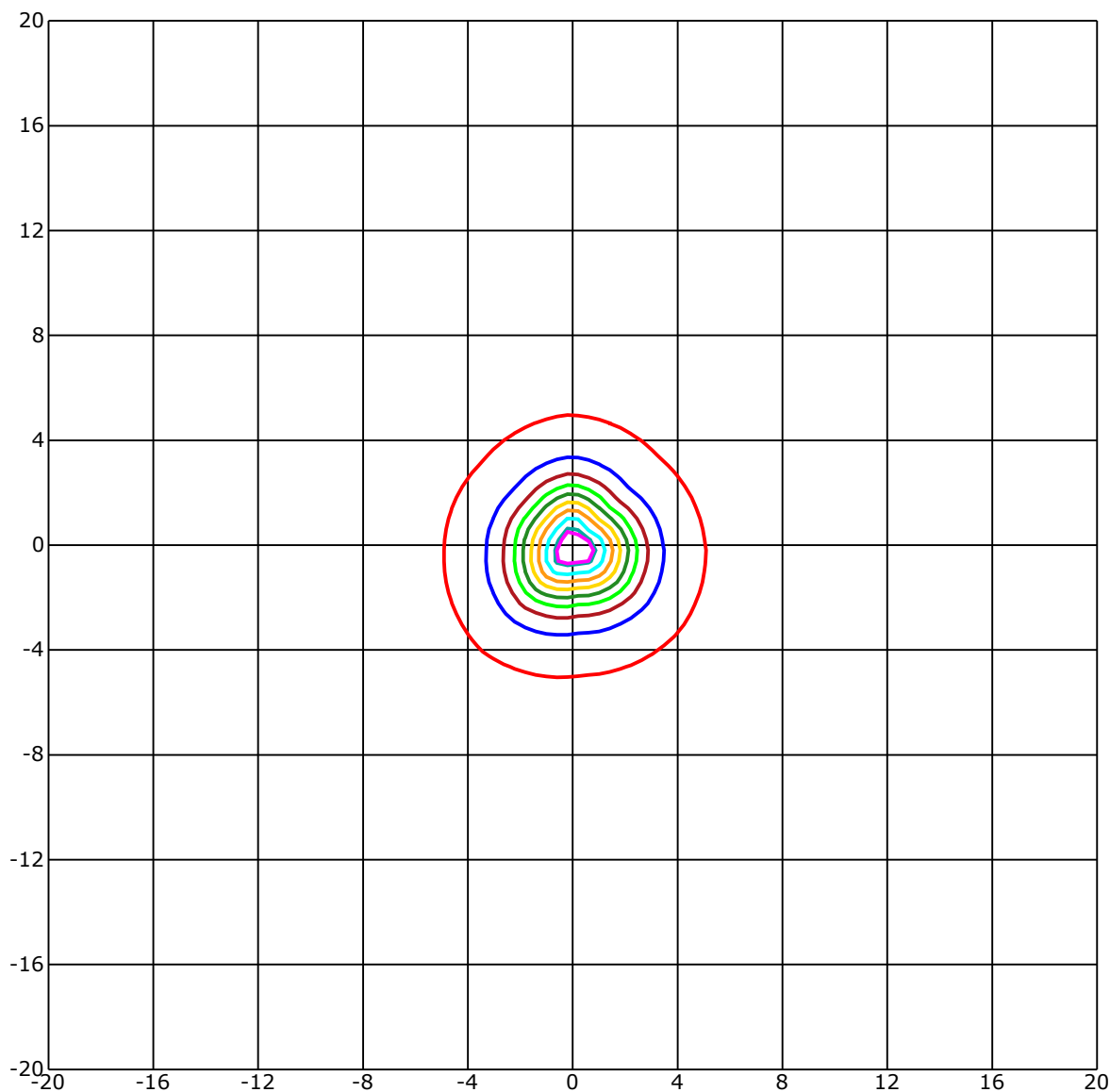
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/2/7 16:16:23

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
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ISOLX DIAGRAM



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

66.924(92%Emax)	36.371(50%Emax)
65.469(90%Emax)	29.097(40%Emax)
58.194(80%Emax)	21.823(30%Emax)
50.92(70%Emax)	14.549(20%Emax)
43.646(60%Emax)	7.274(10%Emax)

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/2/7 16:16:23

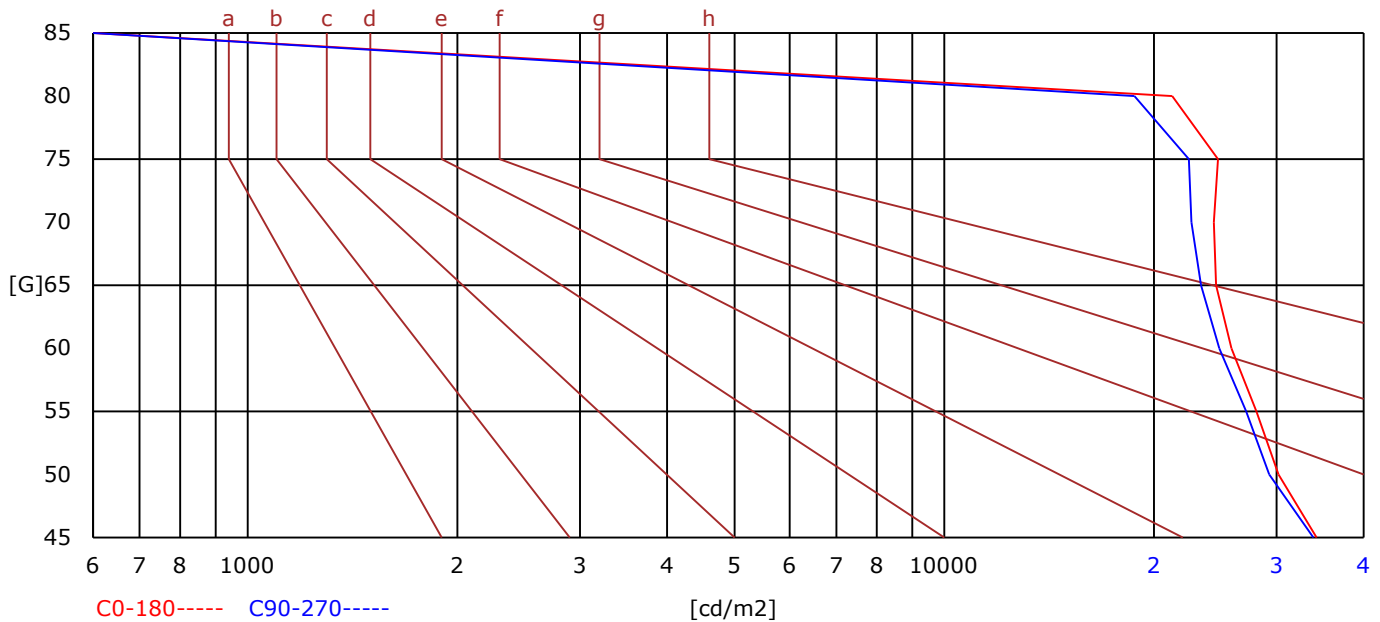
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
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Test Distance: 6.87 m
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	34226	30186	28056	25843	24566	24366	24719	21249	161
C90	33869	29270	27127	24805	23371	22644	22442	18745	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



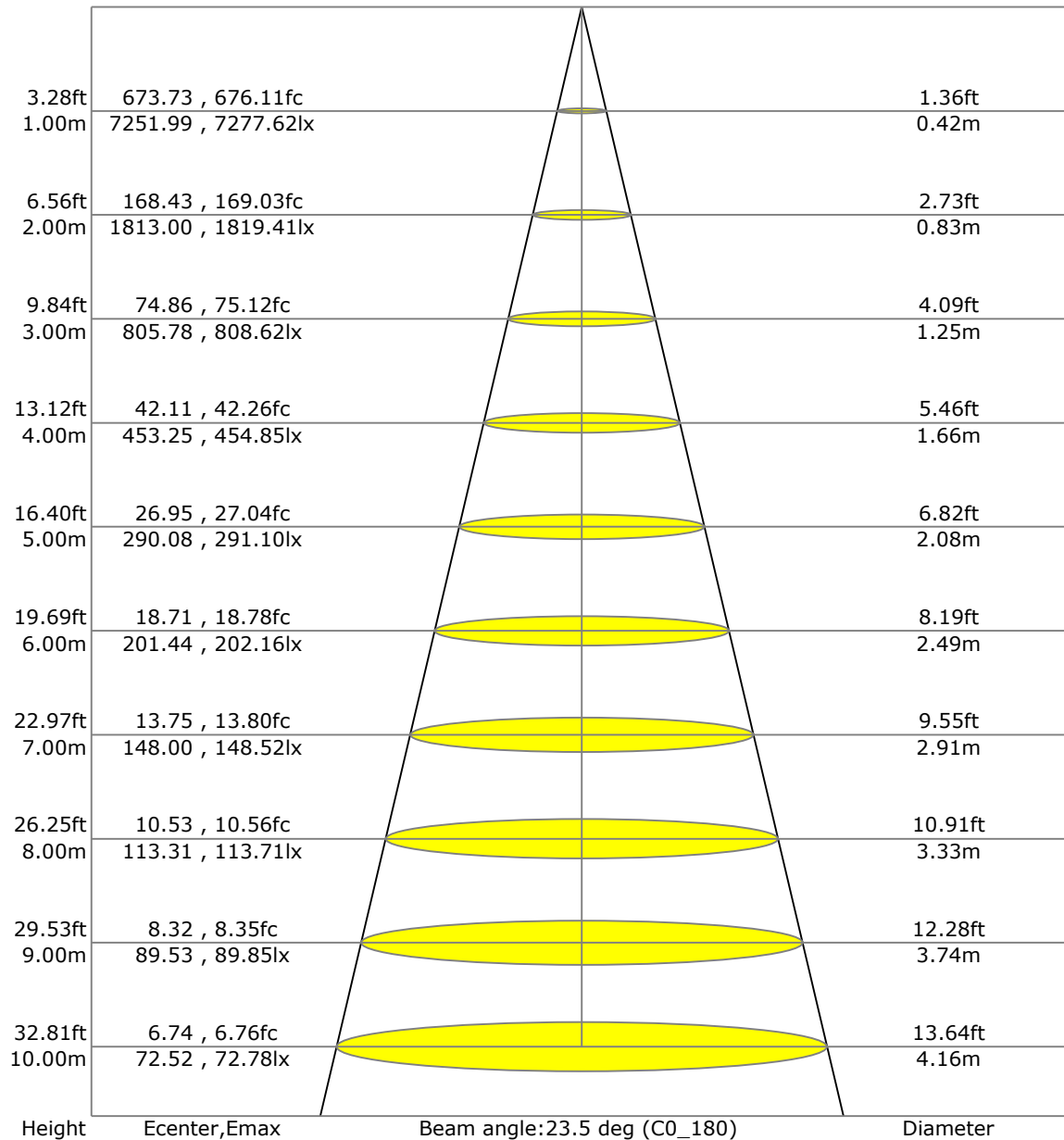
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Temperature: 25
Operators: QC01
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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Humidity: 60
Test Distance: 6.87 m
Remarks:

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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: 2025/2/7 16:16:23

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 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	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	13.29	13.35	13.49	13.54	13.78	13.37	13.43	13.57	13.62	13.86
3H	13.38	13.44	13.59	13.63	13.88	13.46	13.52	13.66	13.71	13.96
4H	13.39	13.45	13.60	13.65	13.90	13.47	13.53	13.68	13.72	13.97
6H	13.38	13.45	13.60	13.65	13.90	13.46	13.52	13.67	13.72	13.97
8H	13.38	13.44	13.59	13.64	13.89	13.45	13.51	13.67	13.71	13.97
12H	13.37	13.43	13.59	13.63	13.89	13.44	13.50	13.66	13.71	13.96
4H 2H	14.78	14.84	14.99	15.04	15.28	14.95	15.01	15.16	15.21	15.45
3H	15.04	15.10	15.26	15.30	15.56	15.19	15.25	15.42	15.46	15.72
4H	15.10	15.16	15.33	15.38	15.64	15.25	15.31	15.48	15.53	15.79
6H	15.12	15.18	15.36	15.40	15.67	15.27	15.33	15.51	15.55	15.81
8H	15.12	15.18	15.36	15.40	15.67	15.26	15.32	15.51	15.55	15.81
12H	15.11	15.16	15.36	15.39	15.66	15.25	15.31	15.50	15.54	15.81
8H 4H	15.30	15.36	15.52	15.57	15.82	15.52	15.58	15.74	15.78	16.04
6H	15.85	15.91	16.11	16.14	16.42	16.05	16.11	16.31	16.35	16.62
8H	15.85	15.90	16.11	16.15	16.43	16.05	16.10	16.31	16.35	16.63
12H	15.84	15.89	16.11	16.14	16.42	16.04	16.09	16.31	16.34	16.62
12H 4H	15.88	15.94	16.13	16.17	16.44	16.12	16.18	16.37	16.41	16.68
6H	15.94	16.00	16.21	16.24	16.52	16.18	16.23	16.44	16.48	16.76

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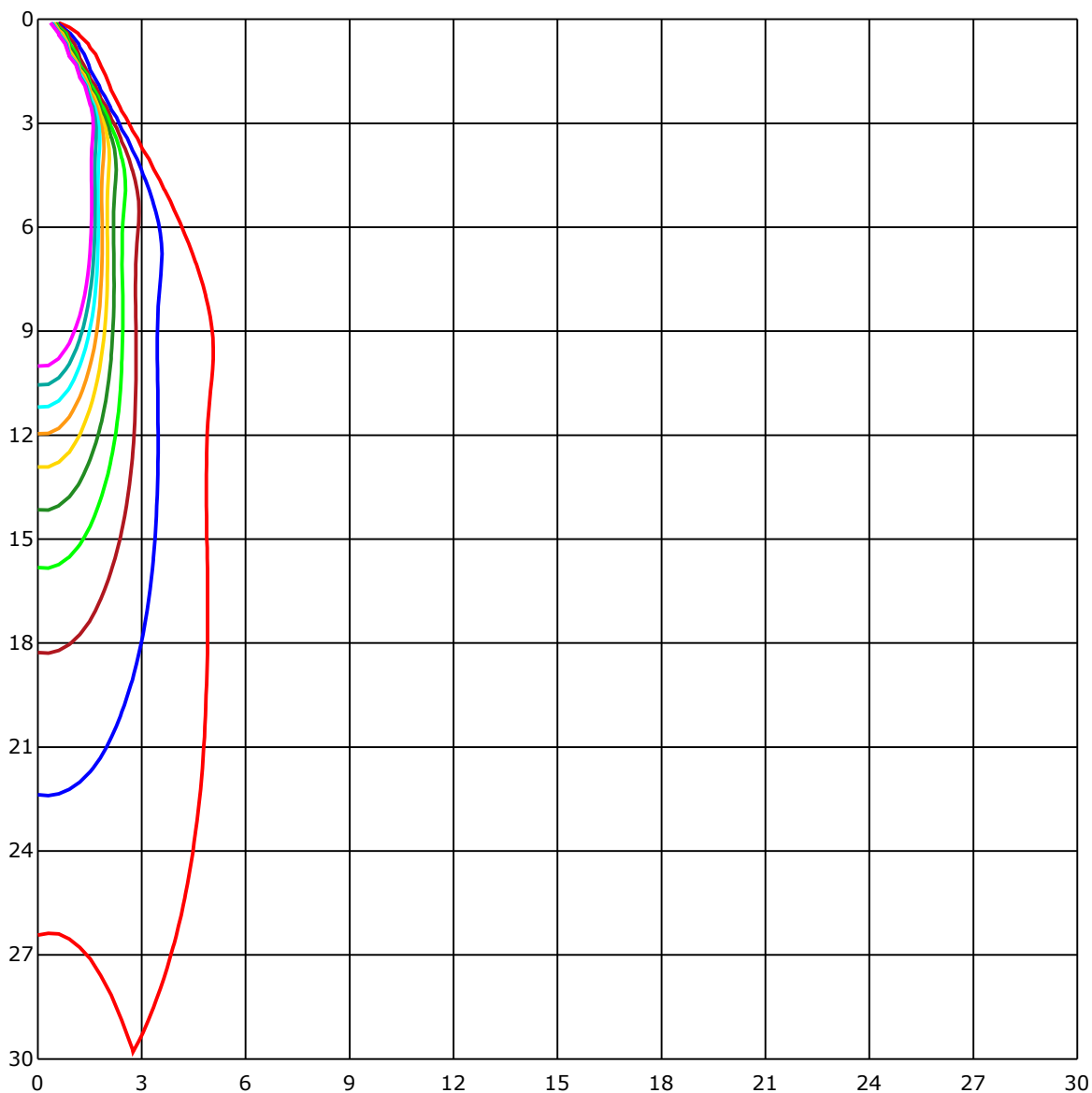
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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Humidity: 60
Test Distance: 6.87 m
Remarks:

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SPACE ISOLX DIAGRAM



Unit of illumination:lx

72.43	36.215
65.187	28.972
57.944	21.729
50.701	14.486
43.458	7.243

C Range: 0 - 360 Deg
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	7251.99	7142.59	7271.25	7206.5	7251.99	7142.59	7271.25	7206.5	7251.99	
G1	7275.36	6986.09	7229.48	7066.18	7149.86	7220.89	7224.81	7277.62	7275.36	
G2	7215.75	6757.04	7114.65	6861.3	6981.84	7214.52	7105.12	7262.19	7215.75	
G3	7083.69	6461.21	6917.23	6582.98	6751.85	7135.13	6909.86	7168.78	7083.69	
G4	6877.72	6117.38	6661.09	6244.24	6453.94	6975.84	6628.62	7001.8	6877.72	
G5	6607.99	5720.64	6345.58	5846.56	6106.05	6741.18	6290.5	6768.74	6607.99	
G6	6267.94	5309.37	5974.42	5423.63	5717.53	6456.44	5920.24	6467.82	6267.94	
G7	5886.21	4879.36	5571.12	4979.79	5302.48	6122.48	5508.63	6117.52	5886.21	
G8	5486.26	4445.15	5149.18	4550.87	4883.32	5735.27	5085.56	5730.27	5486.26	
G9	5069.56	4019.52	4714.78	4127.61	4470.96	5326.78	4646.82	5328.25	5069.56	
G10	4638.13	3610.8	4298.74	3717.42	4082.3	4918.25	4227.14	4915.18	4638.13	
G11	4204.39	3219.96	3889.4	3320.26	3681.26	4507.92	3820.02	4496.69	4204.39	
G12	3792.84	2862.49	3488.98	2963.49	3288.63	4115.43	3424.56	4082.25	3792.84	
G13	3385.48	2534.38	3124.58	2633.59	2942.35	3716.76	3061.33	3689.81	3385.48	
G14	3010.6	2255.3	2786.74	2337.8	2629.1	3340.88	2724.11	3312.56	3010.6	
G15	2680.22	2013.42	2490.49	2093.7	2346.96	2994.55	2438.71	2957.03	2680.22	
G16	2374.1	1814.53	2218.02	1876.83	2109.8	2683.9	2185.55	2632.93	2374.1	
G17	2123.01	1637.36	1990.81	1696.3	1899.49	2413.41	1966.13	2357.49	2123.01	
G18	1895.52	1501.24	1794.1	1542.68	1720.37	2173.18	1782.91	2111.45	1895.52	
G19	1706.78	1384.24	1627.21	1421.43	1570.81	1964.9	1626.78	1900.48	1706.78	
G20	1556.65	1293.34	1490.48	1318.49	1443.8	1786.45	1498.79	1717.73	1556.65	
G21	1429.97	1211.64	1377.3	1233.16	1339.83	1633.72	1392.03	1570.48	1429.97	
G22	1326.14	1145.99	1285.83	1160.38	1253.64	1510.82	1300.37	1448.47	1326.14	
G23	1239.58	1087.79	1208.1	1097.09	1180.16	1404.06	1222.49	1346.48	1239.58	
G24	1170.2	1038.43	1140.37	1039.98	1118.71	1312.55	1152.55	1259.45	1170.2	
G25	1110.59	985.42	1086.43	985.99	1064.72	1236.56	1092.99	1187.66	1110.59	
G26	1059.29	932.0	1026.91	932.04	1010.72	1170.06	1035.69	1124.66	1059.29	
G27	1007.89	875.83	974.66	874.13	958.24	1110.83	983.96	1069.91	1007.89	
G28	955.83	809.85	920.91	806.08	897.97	1056.31	924.02	1016.34	955.83	
G29	898.58	736.18	861.53	731.6	828.92	1001.19	861.44	965.55	898.58	
G30	834.11	657.41	787.2	653.25	752.37	939.74	788.14	909.06	834.11	
G31	759.02	576.84	711.87	575.57	669.39	870.64	709.89	845.86	759.02	
G32	683.93	500.66	634.14	499.72	588.64	792.29	629.65	771.53	683.93	
G33	603.6	425.81	558.67	426.75	506.23	709.18	549.32	694.93	603.6	
G34	524.59	357.0	482.87	359.12	428.93	626.02	469.14	616.25	524.59	
G35	447.19	293.38	411.7	297.15	356.9	540.4	395.46	537.95	447.19	
G36	376.21	240.7	345.43	243.96	294.65	458.19	329.1	460.45	376.21	

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: 6.87 m

Remarks:

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	311.5	198.09	287.48	202.0	242.69	382.48	272.0	388.34	311.5	
G38	255.52	165.8	239.81	169.96	202.05	315.42	222.86	323.16	255.52	
G39	210.26	143.2	203.23	146.55	171.66	258.97	185.34	267.94	210.26	
G40	174.77	125.69	175.24	128.28	149.71	214.46	156.08	224.14	174.77	
G41	148.39	111.81	152.78	113.93	132.39	181.57	135.74	190.68	148.39	
G42	130.03	100.86	134.84	102.42	118.7	156.27	119.27	164.15	130.03	
G43	115.21	92.32	121.01	93.59	108.27	137.3	106.1	144.56	115.21	
G44	103.88	86.23	109.97	86.61	100.34	122.15	95.95	127.95	103.88	
G45	94.82	81.41	102.04	80.57	93.69	110.72	87.93	115.73	94.82	
G46	88.4	77.59	95.01	76.08	88.73	102.09	82.08	105.91	88.4	
G47	83.07	73.96	89.63	72.45	84.2	95.38	77.73	98.26	83.07	
G48	78.82	70.98	85.05	68.95	80.61	90.0	73.82	92.18	78.82	
G49	75.04	68.01	81.08	66.08	77.31	85.62	70.65	87.13	75.04	
G50	72.16	65.27	77.78	63.29	74.19	81.75	67.59	83.07	72.16	
G51	69.1	62.91	74.57	60.98	71.17	78.39	65.27	79.53	69.1	
G52	66.41	60.74	71.74	58.81	68.44	75.33	62.54	76.27	66.41	
G53	63.9	58.29	68.95	56.4	65.84	72.45	60.36	73.44	63.9	
G54	61.54	56.21	66.45	54.37	63.67	69.43	58.15	70.42	61.54	
G55	59.33	54.13	63.95	52.34	60.93	67.02	55.93	68.11	59.33	
G56	57.06	52.15	61.54	50.12	58.57	64.75	53.85	65.37	57.06	
G57	55.03	49.98	59.47	47.72	56.12	61.97	51.73	62.96	55.03	
G58	53.0	47.67	56.97	45.73	53.95	59.42	49.18	60.46	53.0	
G59	50.83	45.5	54.61	43.7	51.59	56.97	47.15	58.24	50.83	
G60	48.33	43.47	52.44	41.72	48.9	54.8	45.17	55.93	48.33	
G61	46.44	41.72	50.31	39.93	46.87	52.25	43.14	53.9	46.44	
G62	44.51	39.88	48.0	38.14	44.79	50.08	41.44	51.44	44.51	
G63	42.67	38.18	45.92	36.53	42.95	47.48	39.79	49.37	42.67	
G64	40.78	36.67	43.99	34.69	41.01	45.69	37.76	46.96	40.78	
G65	38.98	34.93	42.15	33.23	39.08	43.52	36.29	45.07	38.98	
G66	37.47	33.51	40.49	31.57	37.47	41.77	34.6	43.04	37.47	
G67	35.82	32.09	38.75	30.02	35.78	39.83	33.04	41.39	35.82	
G68	34.45	30.77	37.05	28.7	34.22	38.23	31.62	39.69	34.45	
G69	32.94	29.4	35.73	27.33	32.8	36.53	30.16	37.99	32.94	
G70	31.62	28.03	33.84	26.05	31.29	34.97	28.79	36.29	31.62	
G71	30.21	26.71	32.57	24.73	29.88	33.42	27.52	34.88	30.21	
G72	28.79	25.53	31.1	23.5	28.65	32.14	26.01	33.32	28.79	
G73	27.56	24.4	29.78	22.47	27.04	30.49	24.68	31.91	27.56	

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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 2)

[illegible]

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/2/7 16:16:23

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks: