

Report No.:

Test Time: 2025/5/13 18:01:42

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP104CT120H140-15°-40W
Lamp Type:
Luminous Width: 108 mm
Luminous Length: 108 mm
Luminous Height: 105 mm

Voltage(V): 219.80 V
Current(A): 0.1850 A
Power(W): 39.70 W
Power Factor: 0.9730
Lamp Luminous Flux: 3801.33

Photometric Results

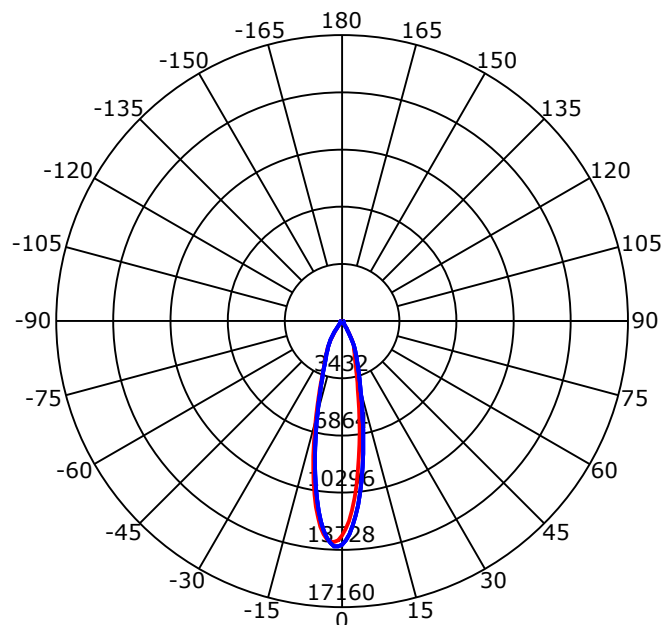
CIE Class: Direct
Luminaire Luminous Flux: 3801.329 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 95.74 lm/W
Beam Angle(50%) C0-180,C90-270: 23.3,24.2
Field Angle(10%) C0-180,C90-270: 58.4,58.7
S/MH C0-180,C90-270: 0.425,0.425

Max. Intensity: 13728.40 cd
Max.Intensity Angle: C=225 Gamma=3
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 12867.24 cd
Effective Luminous Flux: 3201.86 lm
ERP(ϕ use)(120deg): 3740.40 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 23.3 deg,24.2 deg

C0-180 — C90-270 —

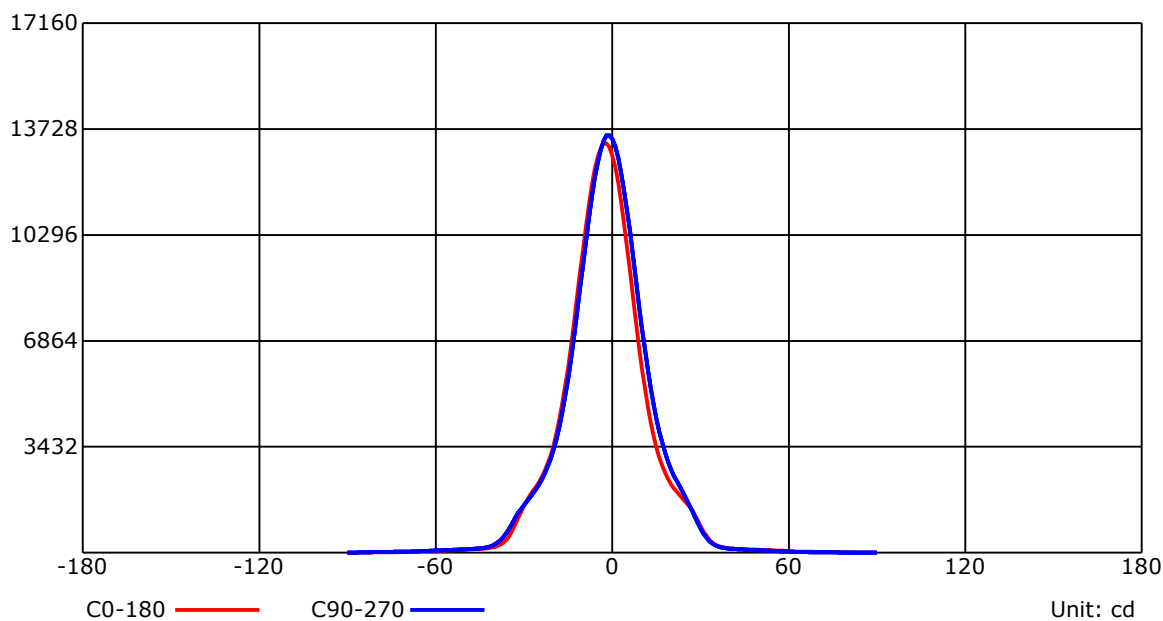
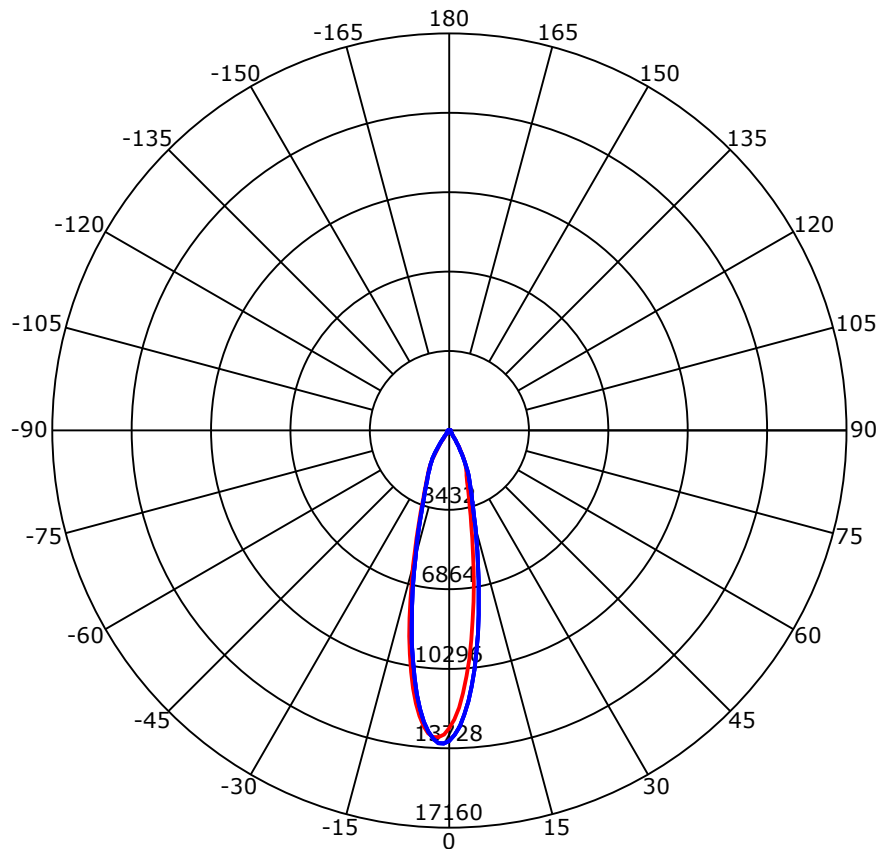
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/5/13 18:01:42

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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Luminous Intensity Distribution Curve



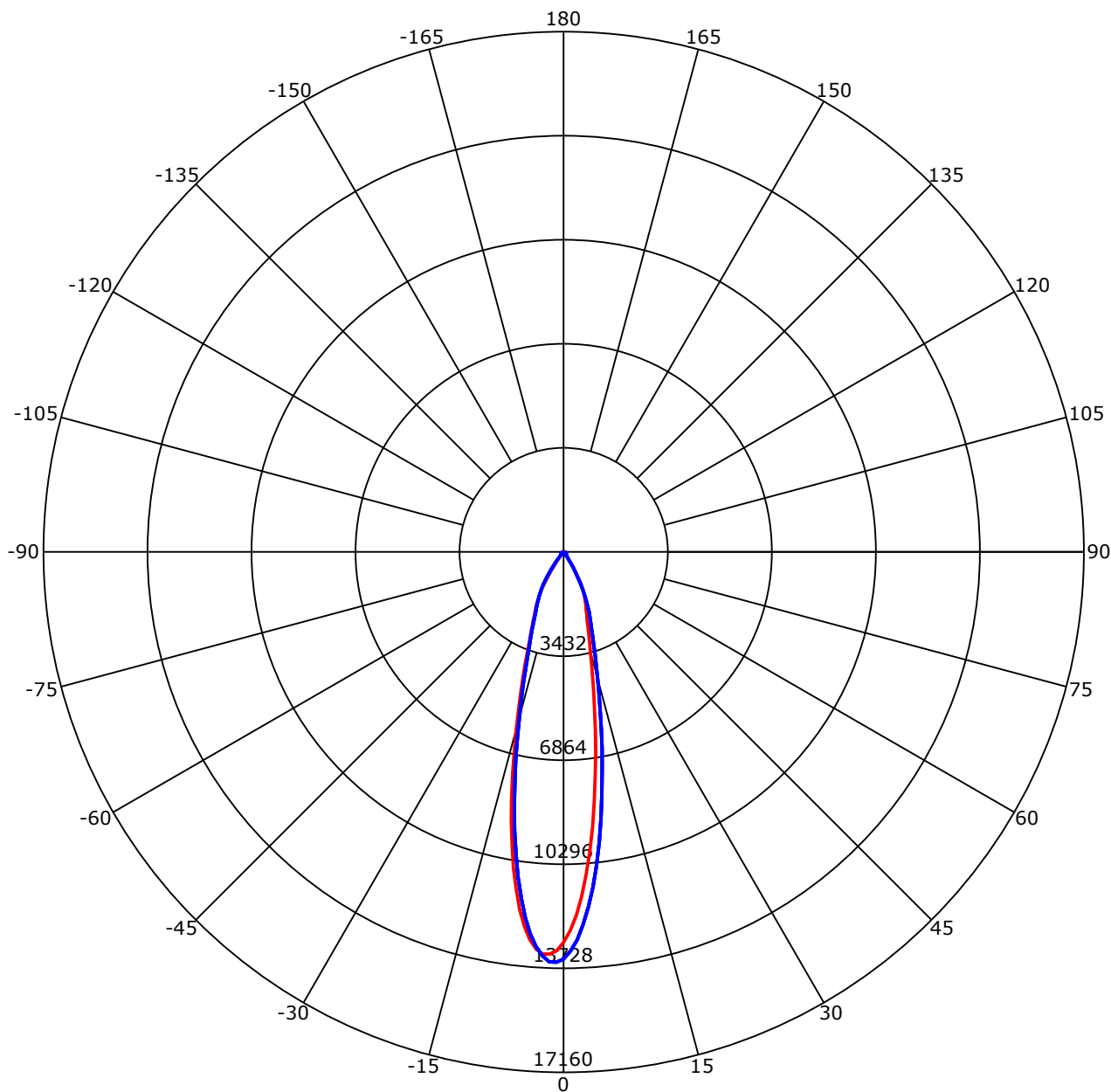
C Range: 0 - 360 Deg
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Test Speed: High
Temperature: 25
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Test System: Huipu CPM-1600B Goniophotometer
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Test Distance: 6.87 m
Remarks:

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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: 2025/5/13 18:01:42

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

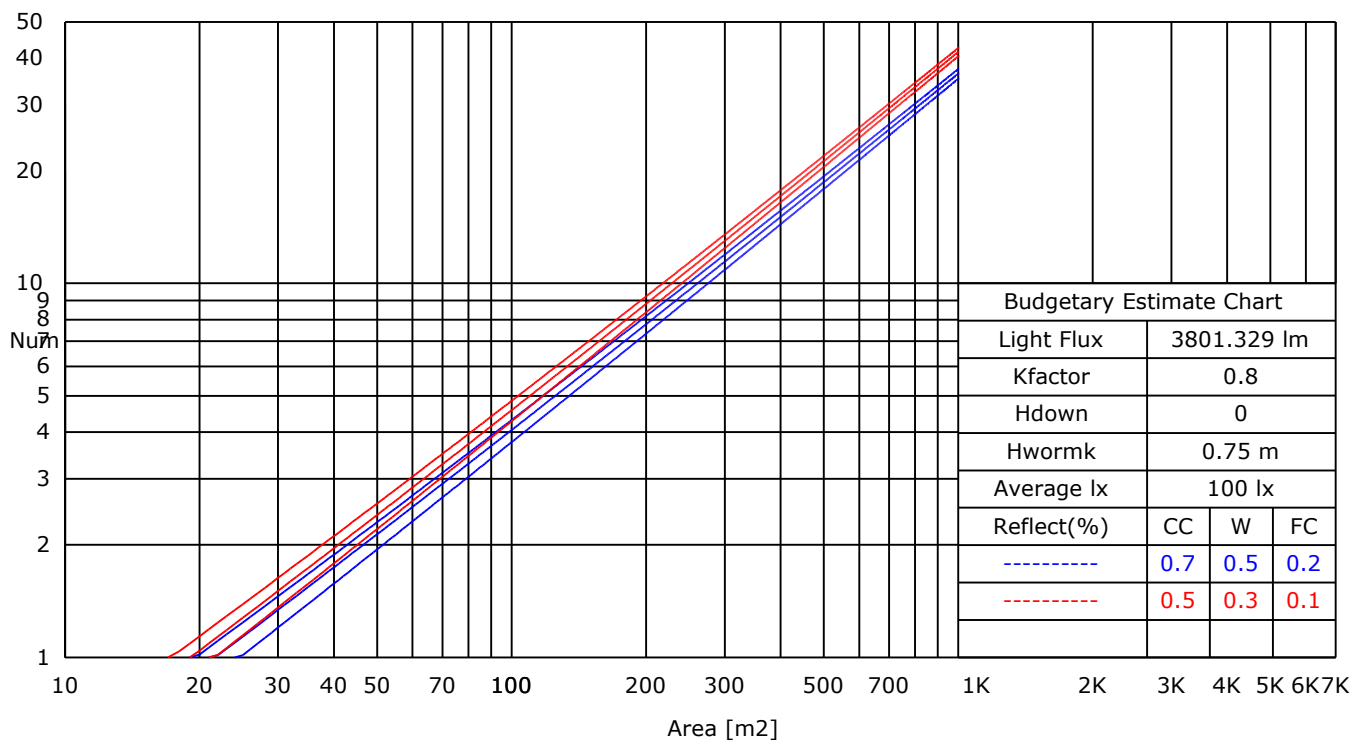
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UTILIZATION FACTORS TABLE

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	0.92	0.89	0.87	0.91	0.88	0.85	0.89	0.85	0.82	0.85	0.81	0.78	0.80	0.76	0.72	0.67
2	0.88	0.85	0.83	0.87	0.84	0.82	0.85	0.82	0.78	0.82	0.78	0.75	0.77	0.73	0.70	0.65
3	0.85	0.82	0.81	0.84	0.81	0.79	0.82	0.78	0.76	0.79	0.75	0.72	0.75	0.71	0.67	0.63
4	0.82	0.79	0.78	0.81	0.78	0.76	0.79	0.76	0.73	0.77	0.73	0.69	0.74	0.69	0.65	0.61
5	0.79	0.77	0.76	0.79	0.76	0.74	0.77	0.73	0.71	0.75	0.70	0.67	0.72	0.67	0.63	0.59
6	0.77	0.75	0.74	0.76	0.74	0.72	0.75	0.71	0.69	0.73	0.69	0.65	0.70	0.65	0.62	0.58
7	0.75	0.73	0.72	0.74	0.72	0.70	0.73	0.69	0.67	0.71	0.67	0.64	0.68	0.64	0.60	0.57
8	0.73	0.71	0.70	0.72	0.70	0.69	0.71	0.68	0.66	0.69	0.65	0.62	0.67	0.62	0.59	0.55
9	0.71	0.70	0.69	0.71	0.69	0.67	0.69	0.66	0.64	0.67	0.64	0.61	0.65	0.61	0.57	0.54
10	0.70	0.68	0.68	0.69	0.67	0.66	0.68	0.65	0.63	0.66	0.62	0.60	0.64	0.59	0.56	0.53

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



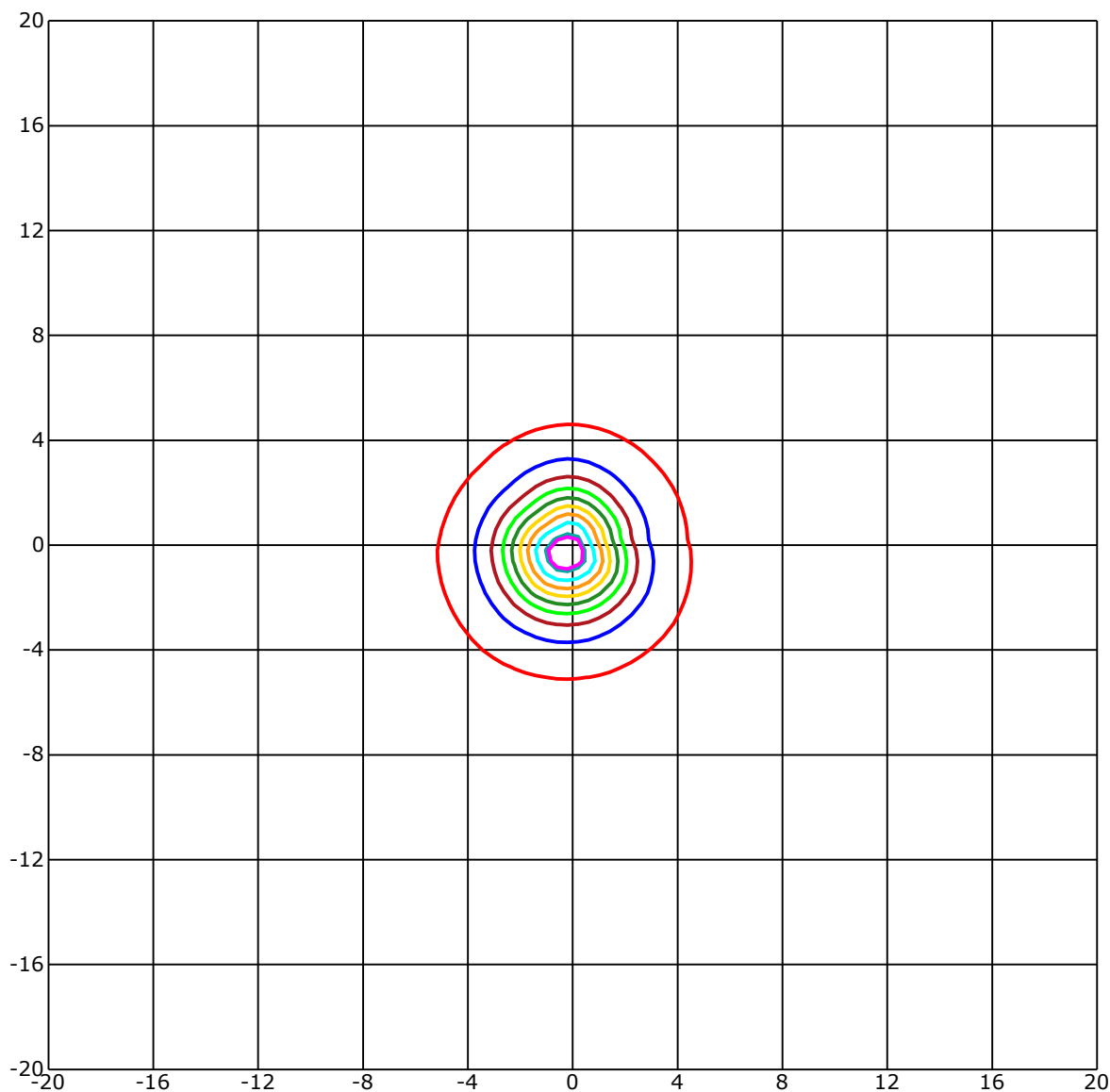
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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Humidity: 60
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ISOLX DIAGRAM



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

125.91(92%Emax)	68.429(50%Emax)
123.173(90%Emax)	54.744(40%Emax)
109.487(80%Emax)	41.058(30%Emax)
95.801(70%Emax)	27.372(20%Emax)
82.115(60%Emax)	13.686(10%Emax)

C Range: 0 - 360 Deg
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Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/5/13 18:01:42

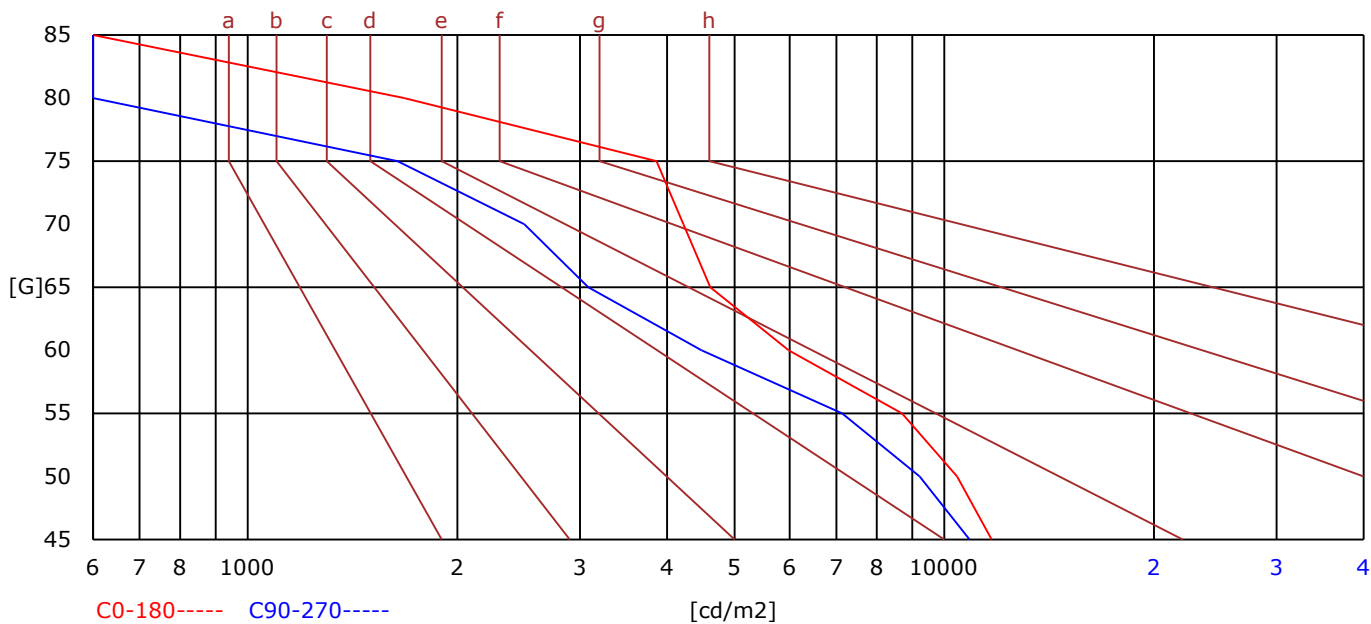
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	11702	10437	8698	5981	4615	4224	3862	1678	0
C90	10867	9216	7139	4483	3083	2496	1642	0	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



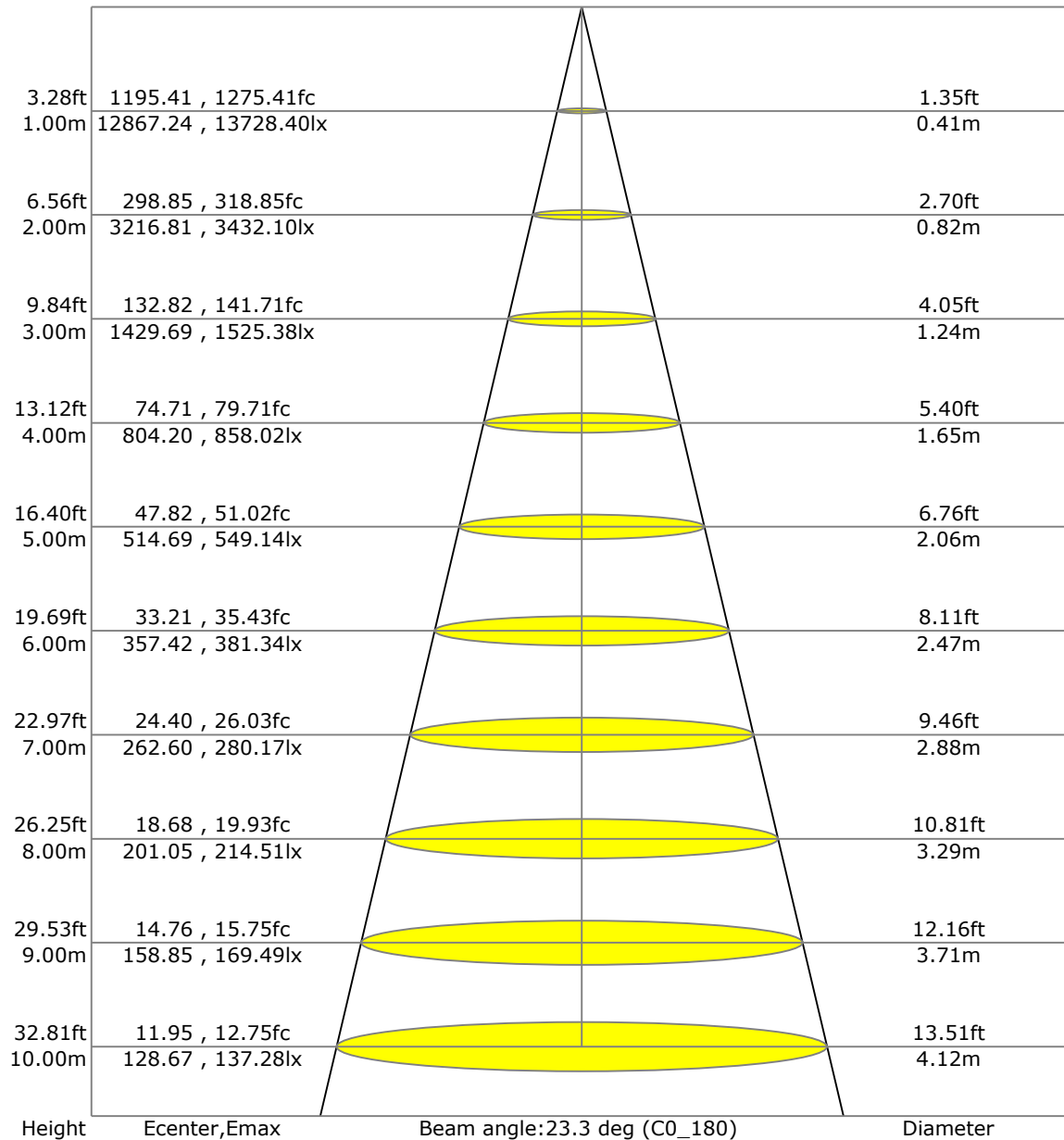
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C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/5/13 18:01:42

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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LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 25
 Operators: QC01
 Test Date: 2025/5/13 18:01:42

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

UGR(Unified Glare Rating) TABLE

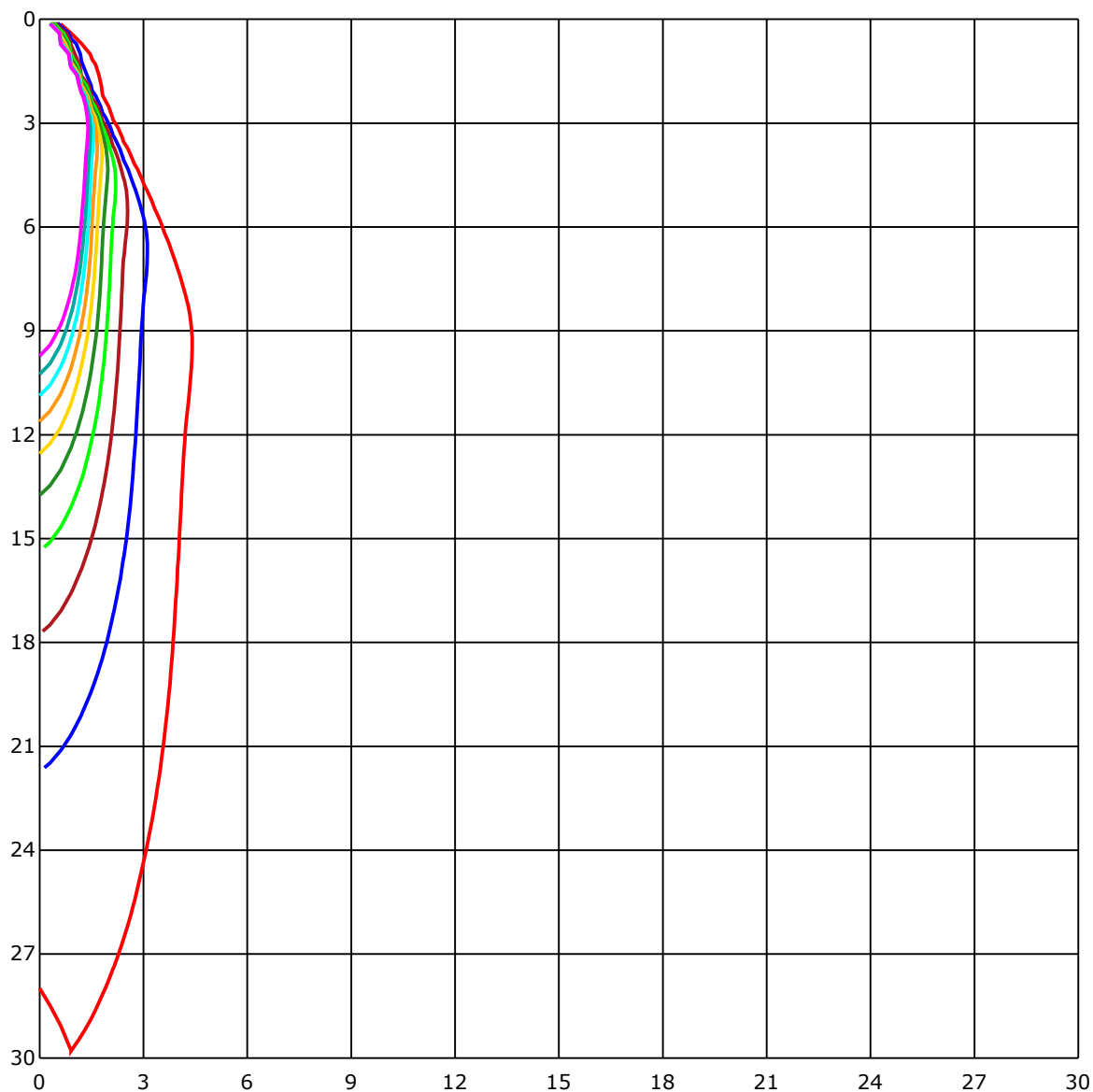
RHOCC	70	70	50	50	30	70	70	50	50	30
RHOW	50	30	50	30	30	50	30	50	30	30
RHOF	20	20	20	20	20	20	20	20	20	20
Room Size X Y	Viewed Endwise					Viewed Crosswise				
2H 2H	4.85	4.90	5.05	5.09	5.33	4.46	4.51	4.66	4.70	4.94
3H	4.87	4.93	5.07	5.12	5.37	4.51	4.57	4.72	4.76	5.01
4H	4.86	4.92	5.07	5.12	5.37	4.52	4.58	4.73	4.77	5.02
6H	4.85	4.91	5.06	5.11	5.36	4.51	4.57	4.72	4.77	5.02
8H	4.84	4.90	5.06	5.10	5.35	4.50	4.56	4.72	4.76	5.01
12H	4.83	4.89	5.05	5.09	5.35	4.49	4.55	4.71	4.75	5.01
4H 2H	5.98	6.04	6.19	6.24	6.49	5.10	5.16	5.31	5.35	5.60
3H	6.10	6.16	6.32	6.36	6.62	5.24	5.30	5.46	5.51	5.76
4H	6.10	6.16	6.33	6.38	6.64	5.27	5.33	5.50	5.54	5.80
6H	6.09	6.15	6.33	6.37	6.63	5.27	5.33	5.51	5.55	5.81
8H	6.07	6.13	6.32	6.36	6.63	5.26	5.32	5.50	5.54	5.81
12H	6.06	6.12	6.31	6.35	6.62	5.25	5.30	5.50	5.54	5.81
8H 4H	6.35	6.41	6.57	6.61	6.87	5.15	5.21	5.37	5.42	5.67
6H	6.52	6.57	6.77	6.81	7.09	5.34	5.39	5.59	5.63	5.91
8H	6.50	6.56	6.76	6.80	7.08	5.33	5.38	5.59	5.63	5.90
12H	6.49	6.54	6.76	6.79	7.07	5.31	5.36	5.58	5.62	5.90
12H 4H	6.55	6.60	6.80	6.84	7.11	5.33	5.39	5.58	5.62	5.89
6H	6.53	6.58	6.79	6.83	7.10	5.32	5.38	5.59	5.62	5.90

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SPACE ISOLX DIAGRAM



Unit of illumination:lx

136.154	68.077
122.538	54.461
108.923	40.846
95.308	27.231
81.692	13.615

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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	12867.24	13292.3	13420.53	13098.41	12867.24	13292.3	13420.53	13098.41	12867.24	
G1	12485.51	12879.89	13156.89	12954.75	13147.03	13604.27	13525.07	13110.02	12485.51	
G2	11982.21	12355.63	12794.65	12669.91	13262.33	13710.94	13522.34	13010.2	11982.21	
G3	11363.88	11726.45	12294.08	12258.92	13273.51	13728.4	13341.71	12747.79	11363.88	
G4	10649.84	11039.68	11725.69	11731.59	13111.68	13595.77	13046.26	12378.61	10649.84	
G5	9906.44	10297.32	11104.11	11138.61	12830.43	13311.74	12641.41	11859.64	9906.44	
G6	9099.75	9473.41	10393.56	10478.04	12410.14	12861.06	12113.37	11295.07	9099.75	
G7	8269.56	8674.6	9624.58	9753.71	11881.54	12333.21	11496.03	10596.13	8269.56	
G8	7488.69	7841.91	8851.12	9014.56	11249.48	11722.72	10811.2	9855.47	7488.69	
G9	6725.84	7061.36	8067.22	8252.99	10573.14	11041.24	10077.06	9099.61	6725.84	
G10	6008.78	6339.35	7324.58	7527.43	9813.27	10247.86	9318.23	8311.47	6008.78	
G11	5357.27	5668.02	6623.14	6816.6	9060.34	9459.82	8537.16	7553.11	5357.27	
G12	4749.75	5057.53	5967.62	6153.63	8278.1	8672.15	7752.75	6802.02	4749.75	
G13	4238.99	4512.64	5359.59	5528.79	7485.52	7874.66	7015.91	6089.49	4238.99	
G14	3795.86	4029.58	4830.23	4965.92	6740.05	7099.22	6317.35	5450.49	3795.86	
G15	3406.06	3621.37	4339.9	4449.68	6042.95	6387.86	5663.63	4866.05	3406.06	
G16	3085.45	3267.16	3911.82	3999.7	5403.48	5719.04	5073.62	4352.69	3085.45	
G17	2809.25	2968.21	3546.33	3605.94	4850.14	5114.54	4543.5	3894.22	2809.25	
G18	2571.29	2704.95	3222.23	3264.85	4329.32	4569.27	4081.59	3498.23	2571.29	
G19	2380.0	2492.09	2933.52	2965.33	3885.3	4102.5	3676.64	3163.89	2380.0	
G20	2217.55	2303.78	2691.12	2713.92	3486.77	3687.78	3342.39	2880.66	2217.55	
G21	2081.57	2147.22	2480.62	2499.6	3160.35	3342.01	3043.4	2640.95	2081.57	
G22	1959.19	2007.95	2302.12	2317.23	2883.97	3033.01	2783.77	2440.79	1959.19	
G23	1845.49	1886.37	2130.33	2140.76	2648.27	2777.92	2560.05	2266.77	1845.49	
G24	1737.04	1753.51	1949.47	1974.34	2451.93	2561.94	2373.16	2124.52	1737.04	
G25	1632.12	1608.71	1767.62	1795.84	2288.67	2378.06	2201.22	1993.55	1632.12	
G26	1529.51	1444.7	1576.28	1607.01	2136.79	2218.25	2053.16	1874.66	1529.51	
G27	1399.01	1263.6	1371.07	1400.14	2000.02	2072.37	1911.14	1762.47	1399.01	
G28	1230.42	1072.69	1167.23	1188.89	1861.12	1946.73	1785.93	1655.43	1230.42	
G29	1048.15	887.35	969.19	980.0	1709.0	1821.19	1662.56	1548.91	1048.15	
G30	859.93	708.33	782.76	780.73	1535.74	1694.42	1546.36	1446.77	859.93	
G31	688.65	550.32	612.66	604.17	1328.88	1546.55	1424.73	1330.76	688.65	
G32	541.11	420.48	476.17	457.1	1120.5	1371.68	1297.07	1196.77	541.11	
G33	416.32	323.96	367.71	349.68	910.76	1184.6	1128.62	1028.28	416.32	
G34	325.0	255.57	291.44	272.18	716.87	989.53	958.71	859.97	325.0	
G35	261.61	208.99	237.31	217.53	554.61	807.96	791.78	697.85	261.61	
G36	217.15	175.15	198.13	180.39	419.11	644.33	645.8	558.95	217.15	

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	184.63	152.97	171.66	154.66	325.47	508.45	514.49	441.2	184.63	
G38	164.39	138.29	153.53	138.0	259.72	397.92	408.73	355.11	164.39	
G39	150.04	128.23	141.78	126.16	216.02	318.96	329.62	290.97	150.04	
G40	140.46	121.44	132.2	117.28	184.07	261.75	268.98	243.44	140.46	
G41	132.95	115.44	123.94	109.87	165.43	218.38	223.85	209.18	132.95	
G42	126.72	109.83	116.86	104.21	149.57	186.14	190.44	185.06	126.72	
G43	123.04	105.91	110.58	98.12	139.42	165.19	166.51	168.73	123.04	
G44	117.76	102.46	105.63	93.83	130.22	152.68	150.94	158.11	117.76	
G45	113.08	96.52	99.4	89.63	122.15	142.02	140.03	149.1	113.08	
G46	109.12	92.13	95.05	85.57	117.14	132.95	132.81	142.77	109.12	
G47	105.72	88.82	89.77	80.42	111.9	126.49	126.02	136.54	105.72	
G48	101.47	84.53	86.51	77.12	105.72	120.16	120.97	131.59	101.47	
G49	98.22	81.32	81.41	72.21	101.99	116.15	115.49	126.72	98.22	
G50	94.39	78.25	77.4	69.1	95.86	110.02	110.63	121.96	94.39	
G51	90.1	73.3	73.82	64.19	92.13	106.1	105.82	117.99	90.1	
G52	85.8	68.95	69.0	61.12	87.6	100.72	101.8	112.9	85.8	
G53	81.51	66.03	64.61	56.12	82.97	97.18	97.89	108.55	81.51	
G54	77.5	61.64	61.17	52.11	78.72	93.07	95.57	105.96	77.5	
G55	73.82	58.19	56.16	47.76	75.33	88.45	90.67	101.0	73.82	
G56	70.13	52.81	52.25	43.94	70.61	84.25	86.94	97.89	70.13	
G57	66.31	48.47	47.06	39.65	66.45	81.04	83.44	93.31	66.31	
G58	60.74	44.93	44.27	36.2	61.92	75.7	80.38	89.58	60.74	
G59	56.73	40.16	39.22	32.38	57.91	72.64	75.28	84.72	56.73	
G60	51.92	34.88	32.47	26.15	53.29	68.01	71.13	80.09	51.92	
G61	47.67	31.29	29.5	23.55	49.18	64.0	68.11	74.62	47.67	
G62	42.34	28.55	27.19	21.1	44.79	59.09	63.39	71.13	42.34	
G63	38.98	26.76	24.97	18.41	40.26	54.42	58.95	65.56	38.98	
G64	36.86	24.21	23.46	17.46	34.6	49.51	54.32	61.92	36.86	
G65	35.21	22.75	22.61	15.2	31.29	45.55	49.79	55.93	35.21	
G66	33.09	21.66	19.96	13.97	28.55	40.16	44.46	50.64	33.09	
G67	31.39	20.53	18.08	11.99	27.0	38.7	40.78	47.57	31.39	
G68	29.45	19.26	16.47	11.23	24.87	35.73	39.6	45.59	29.45	
G69	28.37	18.31	15.57	10.38	23.13	33.7	37.66	44.18	28.37	
G70	27.33	16.85	15.72	9.96	22.09	30.87	35.87	42.71	27.33	
G71	28.13	17.27	13.83	8.83	20.01	30.54	33.23	40.16	28.13	
G72	25.77	15.57	13.07	8.5	18.6	28.08	32.38	38.37	25.77	
G73	24.59	13.64	12.27	7.55	17.7	27.09	30.44	36.29	24.59	

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:

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: 2025/5/13 18:01:42

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