

Report No.:

Test Time: 2025/1/7 16:33:16

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP110CT075H92-15°-10W
Lamp Type:
Luminous Width: 80 mm
Luminous Length: 80 mm
Luminous Height: 86 mm

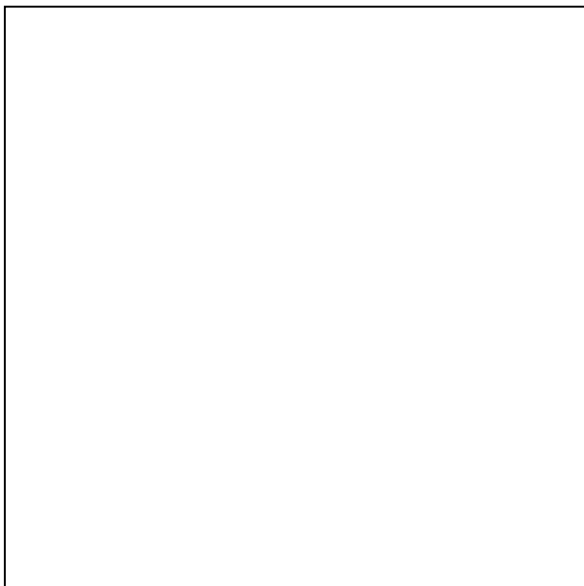
Voltage(V): 228.00 V
Current(A): 0.0520 A
Power(W): 10.87 W
Power Factor: 0.9050
Lamp Luminous Flux: 862.88

Photometric Results

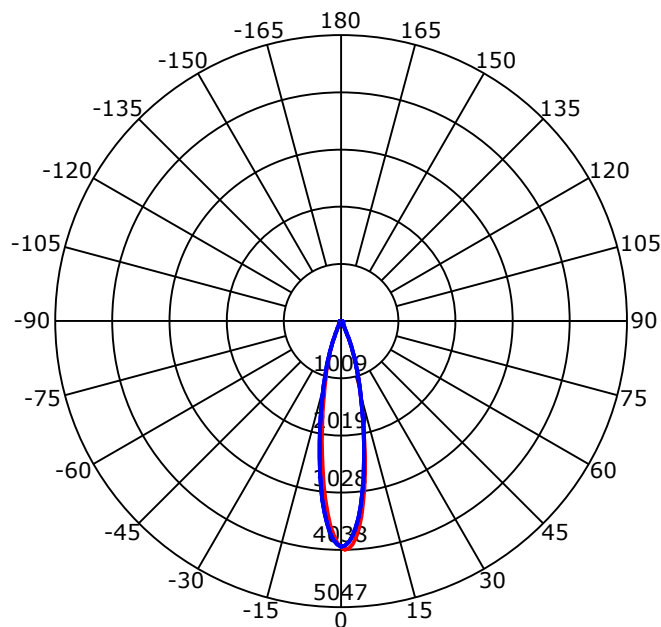
CIE Class: Direct
Luminaire Luminous Flux: 862.8763 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 79.39 lm/W
Beam Angle(50%) C0-180,C90-270: 21.2,22.4
Field Angle(10%) C0-180,C90-270: 44.3,45.0
S/MH C0-180,C90-270: 0.389,0.389

Max. Intensity: 4037.54 cd
Max.Intensity Angle: C=0 Gamma=1
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 3994.33 cd
Effective Luminous Flux: 686.26 lm
ERP(ϕ use)(120deg): 845.47 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 21.2 deg,22.4 deg

C0-180 — C90-270 —

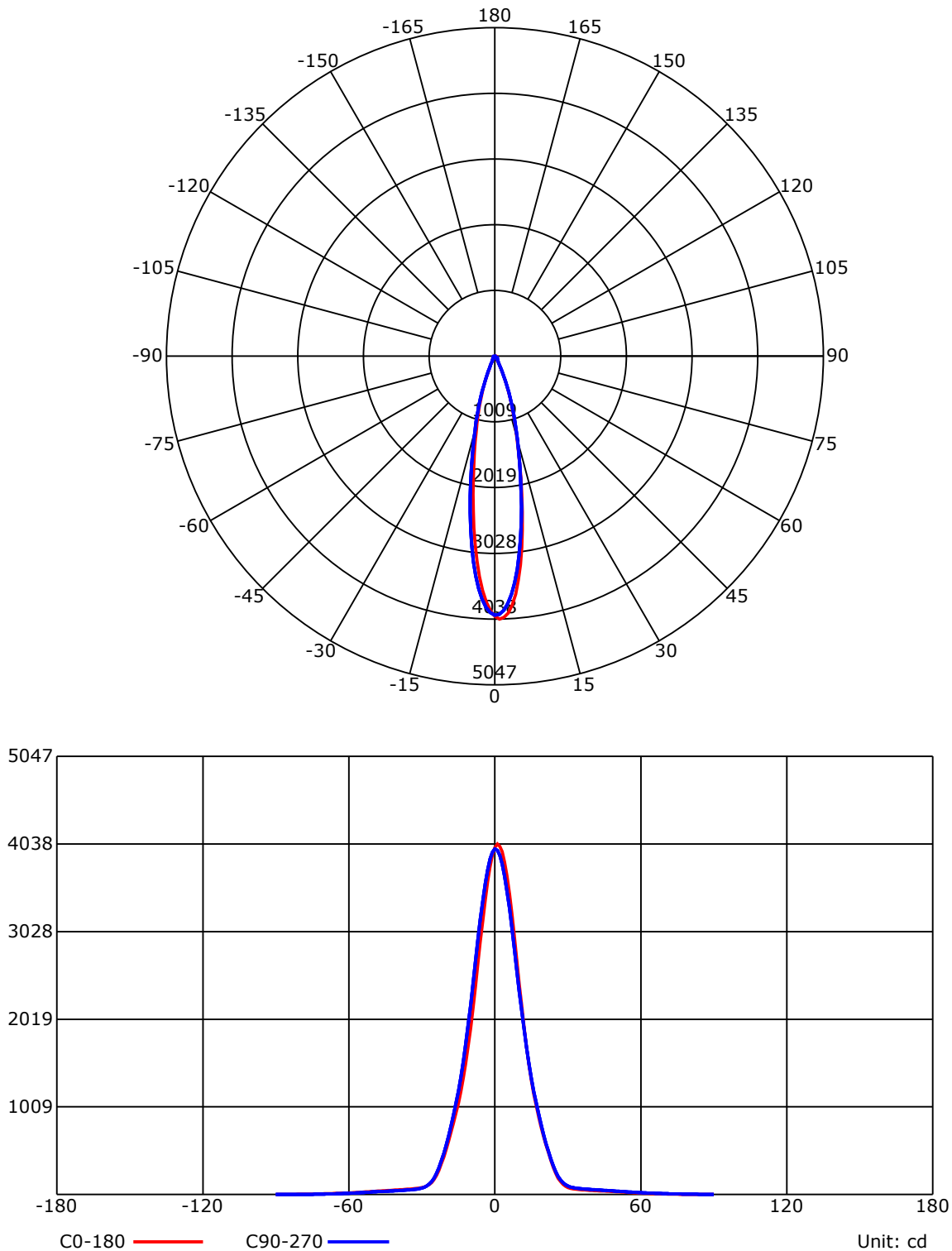
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/1/7 16:33:16

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.:

Test Time: 2025/1/7 16:33:16

Luminous Intensity Distribution Curve



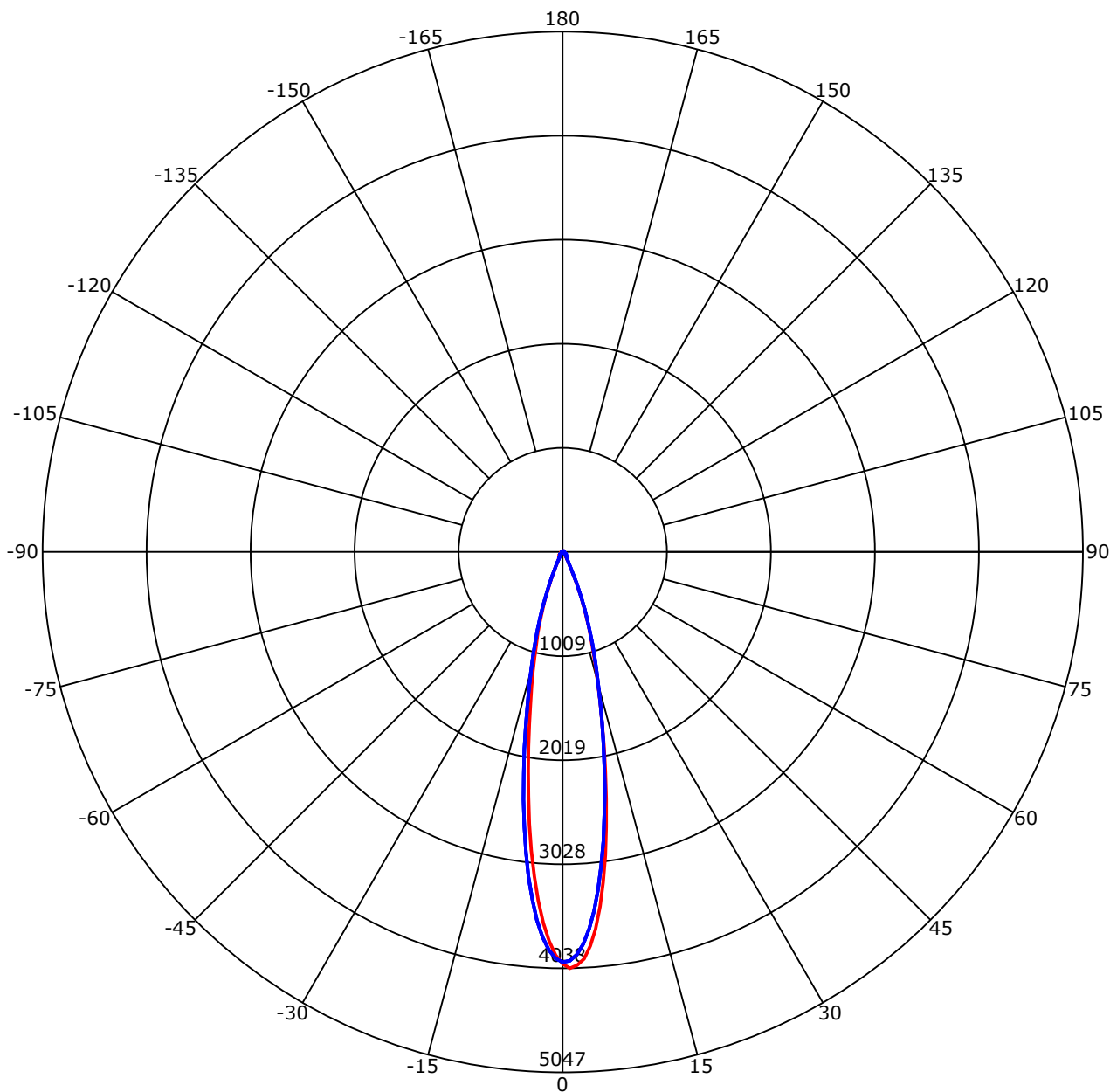
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/1/7 16:33:16

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.:

Test Time: 2025/1/7 16:33:16

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 16:33:16

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

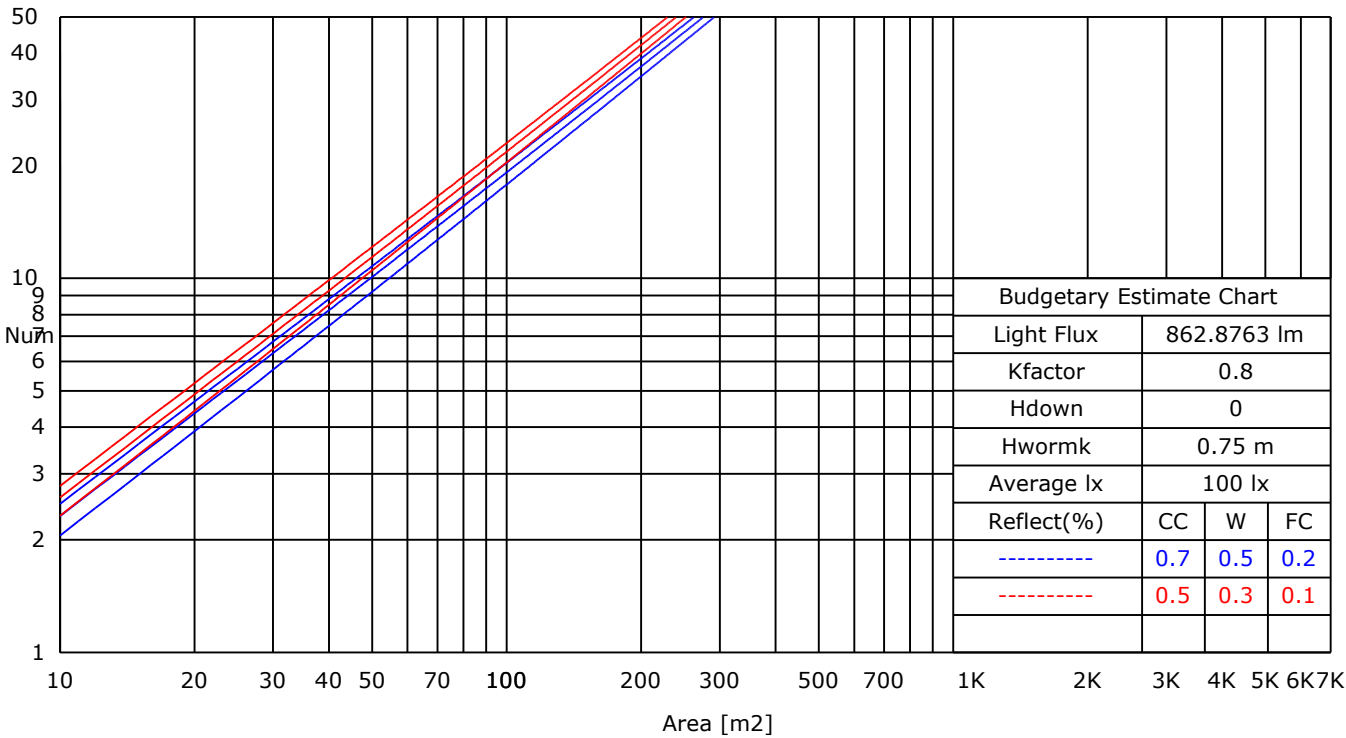
Report No.:

Test Time: 2025/1/7 16:33:16

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	0.86	0.82	0.79	0.85	0.81	0.78	0.83	0.79	0.75	0.80	0.75	0.71	0.75	0.70	0.66	0.61
2	0.82	0.78	0.76	0.81	0.78	0.75	0.80	0.75	0.72	0.77	0.72	0.68	0.73	0.68	0.64	0.59
3	0.78	0.76	0.74	0.78	0.75	0.72	0.77	0.73	0.69	0.74	0.70	0.66	0.71	0.66	0.62	0.57
4	0.76	0.73	0.72	0.75	0.72	0.70	0.74	0.70	0.67	0.72	0.67	0.64	0.69	0.64	0.60	0.56
5	0.73	0.71	0.70	0.73	0.70	0.68	0.72	0.68	0.65	0.70	0.66	0.62	0.68	0.63	0.58	0.55
6	0.71	0.69	0.68	0.71	0.68	0.67	0.70	0.66	0.64	0.68	0.64	0.60	0.66	0.61	0.57	0.53
7	0.70	0.68	0.67	0.69	0.67	0.65	0.68	0.65	0.62	0.67	0.62	0.59	0.65	0.60	0.56	0.52
8	0.68	0.67	0.65	0.68	0.65	0.64	0.67	0.63	0.61	0.65	0.61	0.58	0.63	0.58	0.55	0.51
9	0.67	0.65	0.64	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
10	0.66	0.64	0.63	0.65	0.63	0.62	0.64	0.61	0.59	0.63	0.59	0.56	0.61	0.56	0.53	0.50

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



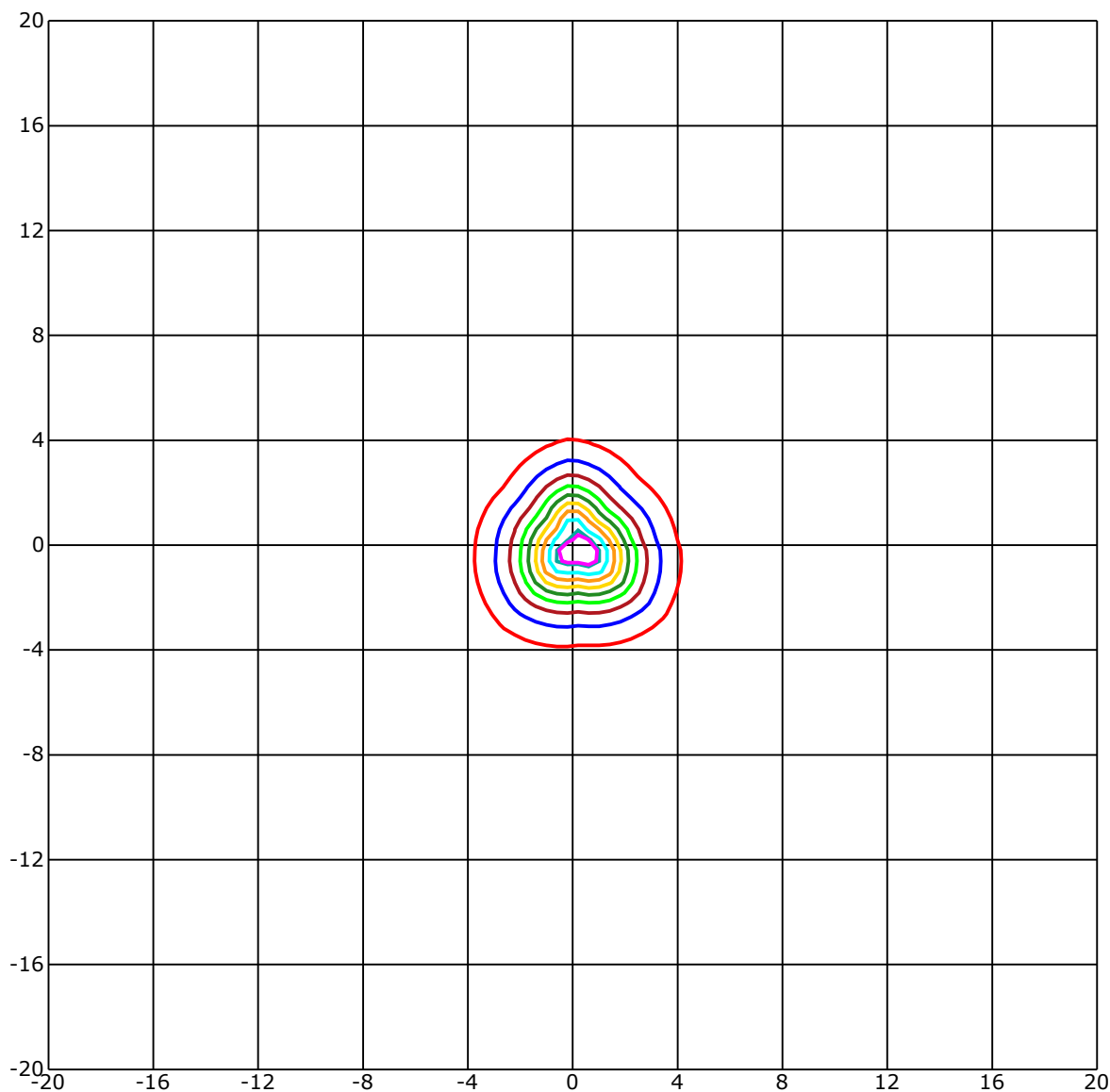
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/1/7 16:33:16

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.:

Test Time: 2025/1/7 16:33:16

ISOLX DIAGRAM



C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/1/7 16:33:16

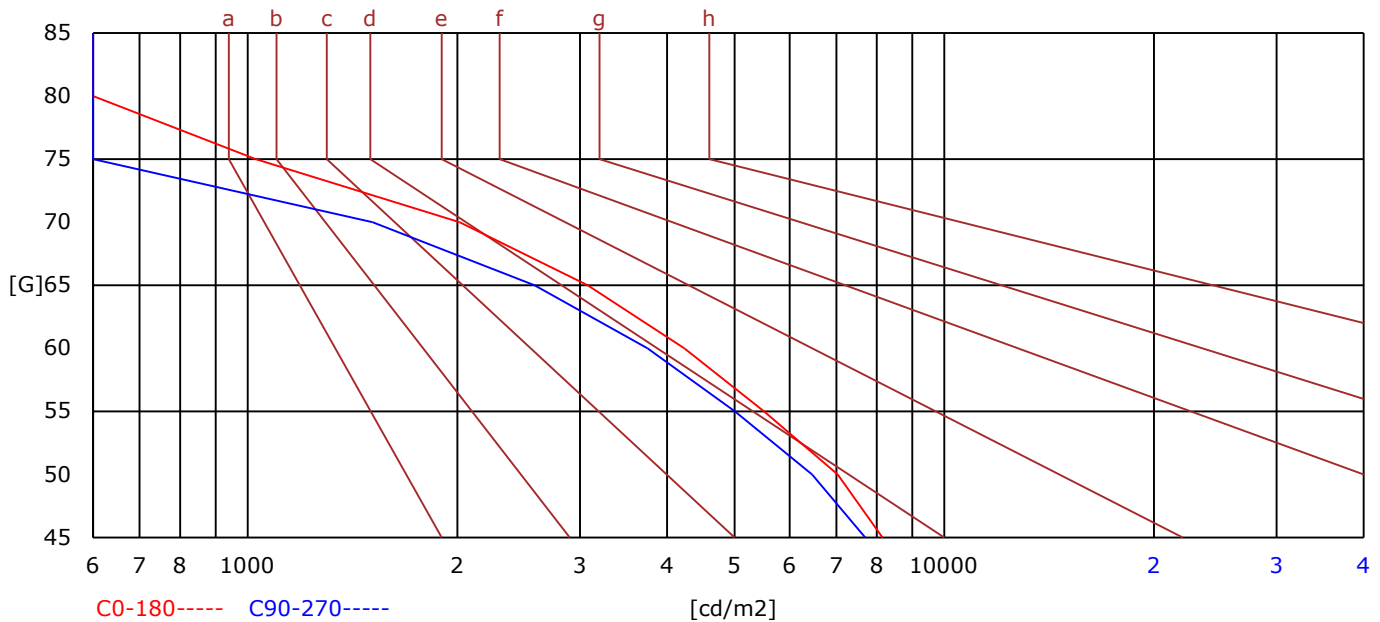
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.78 m
Remarks:

Report No.:

Test Time: 2025/1/7 16:33:16

BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	8157	7028	5510	4238	3076	2016	1027	0	0
C90	7700	6459	5009	3749	2583	1512	527	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



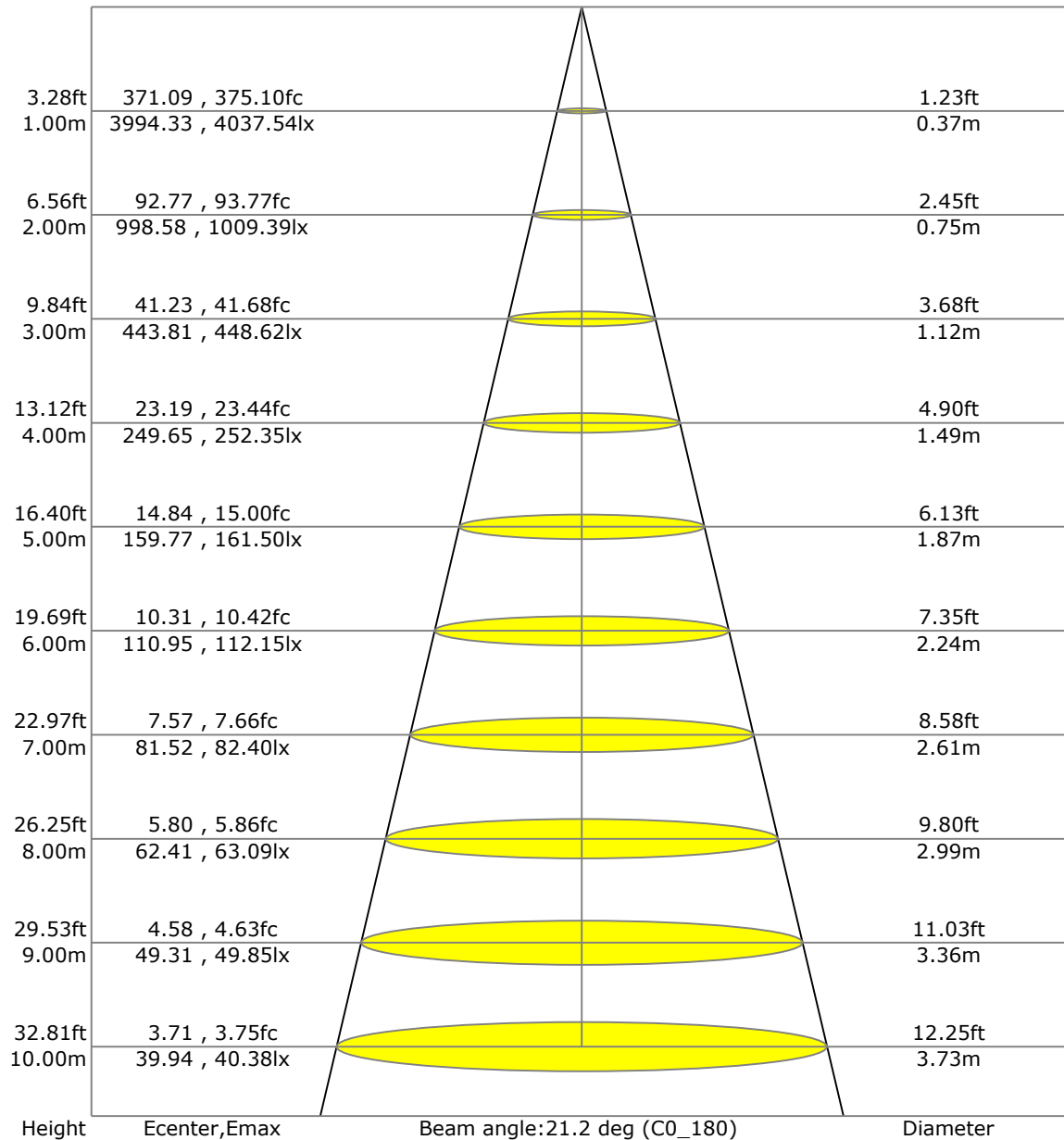
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/1/7 16:33:16

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.:

Test Time: 2025/1/7 16:33:16

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 16:33:16

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

UGR(Unified Glare Rating) TABLE

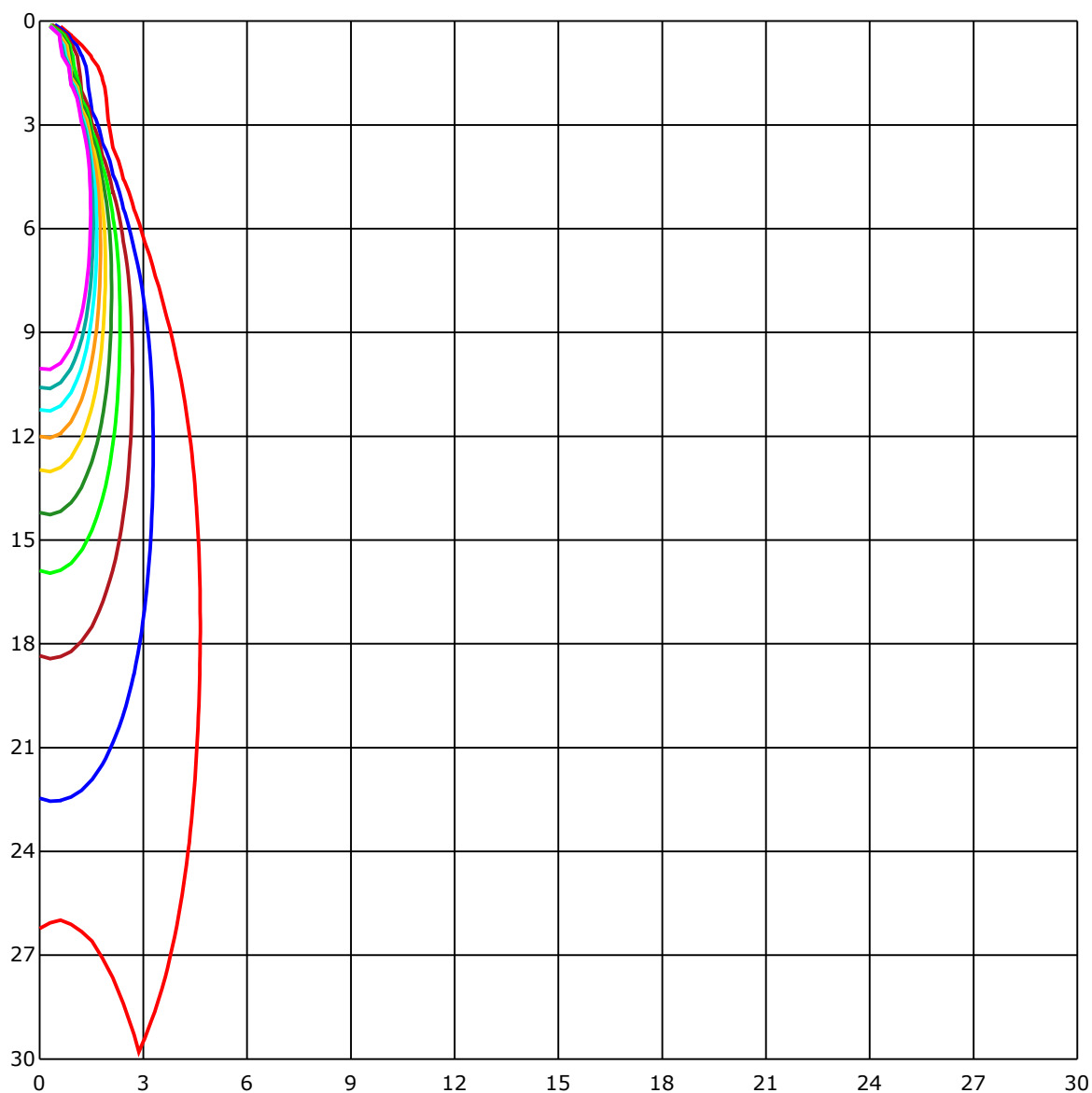
RHOCC	70	70	50	50	30	70	70	50	50	30
RHOW	50	30	50	30	30	50	30	50	30	30
RHOF	20	20	20	20	20	20	20	20	20	20
Room Size X Y	Viewed Endwise					Viewed Crosswise				
2H 2H	8.98	9.04	9.18	9.23	9.47	9.42	9.48	9.62	9.67	9.91
3H	9.03	9.09	9.23	9.28	9.53	9.44	9.50	9.65	9.70	9.94
4H	9.02	9.09	9.23	9.28	9.53	9.43	9.49	9.64	9.69	9.94
6H	9.01	9.07	9.23	9.28	9.53	9.41	9.48	9.63	9.68	9.93
8H	9.00	9.07	9.22	9.27	9.52	9.40	9.47	9.62	9.67	9.93
12H	8.99	9.06	9.21	9.26	9.52	9.39	9.46	9.62	9.67	9.92
4H 2H	9.63	9.70	9.84	9.89	10.14	10.48	10.54	10.69	10.74	10.99
3H	9.69	9.76	9.91	9.96	10.22	10.51	10.58	10.73	10.78	11.04
4H	9.69	9.75	9.92	9.97	10.23	10.50	10.56	10.73	10.78	11.04
6H	9.67	9.74	9.91	9.96	10.22	10.47	10.54	10.71	10.76	11.03
8H	9.66	9.72	9.90	9.95	10.22	10.46	10.53	10.71	10.75	11.02
12H	9.65	9.71	9.90	9.94	10.21	10.45	10.51	10.70	10.74	11.02
8H 4H	9.63	9.69	9.85	9.90	10.15	10.66	10.73	10.88	10.93	11.19
6H	9.65	9.71	9.91	9.95	10.23	10.69	10.75	10.94	10.99	11.26
8H	9.64	9.70	9.90	9.95	10.23	10.67	10.73	10.93	10.98	11.26
12H	9.63	9.68	9.90	9.94	10.22	10.65	10.71	10.92	10.97	11.25
12H 4H	9.66	9.72	9.91	9.96	10.23	10.79	10.85	11.04	11.08	11.35
6H	9.64	9.70	9.90	9.94	10.22	10.77	10.83	11.03	11.08	11.35

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.:

Test Time: 2025/1/7 16:33:16

SPACE ISOLX DIAGRAM



Unit of illumination:lx

39.596	19.798
35.636	15.838
31.677	11.879
27.717	7.919
23.758	3.96

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/1/7 16:33:16

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.:

Test Time: 2025/1/7 16:33:16

LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	3994.33	3924.69	3978.7	3806.32	3994.33	3924.69	3978.7	3806.32	3994.33	
G1	4037.54	3821.72	3965.88	3654.07	3911.73	3961.97	3942.89	3938.62	4037.54	
G2	4011.11	3682.67	3906.44	3464.5	3775.84	3957.79	3864.01	3996.54	4011.11	
G3	3949.38	3502.79	3805.45	3253.05	3604.11	3898.99	3738.79	4028.12	3949.38	
G4	3828.43	3296.03	3664.33	3022.06	3391.55	3801.4	3579.93	3998.93	3828.43	
G5	3670.21	3047.61	3490.29	2781.09	3158.81	3640.42	3386.81	3928.32	3670.21	
G6	3456.27	2790.65	3288.99	2529.32	2911.92	3464.23	3169.15	3814.55	3456.27	
G7	3227.44	2528.35	3062.19	2285.73	2658.31	3235.67	2933.98	3664.65	3227.44	
G8	2970.48	2266.93	2828.67	2051.29	2392.38	3005.14	2686.21	3484.31	2970.48	
G9	2700.28	2016.27	2582.74	1834.46	2148.43	2751.81	2431.59	3261.27	2700.28	
G10	2429.66	1786.65	2344.85	1636.06	1915.64	2498.43	2181.48	3021.41	2429.66	
G11	2166.26	1576.62	2108.76	1451.5	1699.73	2247.35	1947.82	2773.23	2166.26	
G12	1918.77	1389.72	1897.67	1284.68	1508.73	2008.87	1731.03	2512.86	1918.77	
G13	1695.5	1223.36	1690.21	1136.06	1340.12	1779.62	1528.4	2267.62	1695.5	
G14	1493.05	1081.22	1507.3	1003.17	1188.56	1577.87	1352.53	2033.69	1493.05	
G15	1317.45	954.58	1339.57	881.86	1054.56	1399.42	1193.02	1817.27	1317.45	
G16	1159.37	839.66	1187.87	766.43	933.53	1239.35	1048.22	1615.15	1159.37	
G17	1019.03	731.68	1050.47	659.97	825.36	1098.05	914.77	1433.25	1019.03	
G18	891.79	633.9	924.15	560.49	722.76	971.77	793.78	1269.46	891.79	
G19	777.0	541.23	806.38	467.77	621.35	852.25	677.21	1113.81	777.0	
G20	672.01	453.66	693.85	382.92	525.23	741.98	573.04	974.99	672.01	
G21	574.38	369.49	591.11	307.85	435.37	637.17	476.05	846.83	574.38	
G22	480.78	295.21	495.91	244.55	353.63	538.47	388.11	729.1	480.78	
G23	392.71	230.85	407.79	191.83	279.63	445.16	308.54	617.86	392.71	
G24	311.76	176.98	329.09	150.13	219.5	358.37	243.4	512.27	311.76	
G25	243.68	137.63	262.34	119.43	173.58	282.52	189.76	417.85	243.68	
G26	187.96	109.82	208.47	97.96	139.15	222.26	148.94	336.35	187.96	
G27	147.01	91.16	166.59	82.84	114.69	174.77	119.7	268.73	147.01	
G28	116.81	78.38	135.47	72.45	98.0	140.71	98.79	213.94	116.81	
G29	95.84	69.96	113.54	65.78	87.06	116.35	83.66	172.06	95.84	
G30	81.46	64.86	97.91	61.28	79.66	99.84	73.64	140.34	81.46	
G31	72.12	61.37	87.34	58.1	74.61	88.35	66.75	117.08	72.12	
G32	66.29	58.61	80.4	55.21	70.79	81.32	62.47	100.62	66.29	
G33	62.15	55.99	75.2	53.14	67.71	75.8	58.66	89.64	62.15	
G34	58.75	54.15	71.34	51.3	64.86	71.94	55.76	82.1	58.75	
G35	56.13	52.08	68.08	49.55	62.7	68.36	53.42	76.35	56.13	
G36	53.74	50.43	65.55	47.44	60.36	65.5	51.48	71.85	53.74	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2025/1/7 16:33:16

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.:

Test Time: 2025/1/7 16:33:16

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	51.94	48.77	63.02	46.06	58.52	62.88	49.28	68.26	51.94	
G38	49.78	46.98	60.63	44.64	56.68	60.63	47.21	65.18	49.78	
G39	47.9	45.55	58.56	43.21	54.89	58.38	45.6	62.61	47.9	
G40	46.24	44.27	56.82	41.79	53.05	56.68	44.18	60.13	46.24	
G41	44.91	42.7	54.93	40.45	51.48	54.75	42.66	57.92	44.91	
G42	43.26	41.23	53.28	39.07	49.69	52.91	41.28	55.99	43.26	
G43	41.92	39.85	51.58	37.6	47.76	51.21	39.67	54.2	41.92	
G44	40.45	38.48	49.83	36.18	46.01	49.74	38.48	52.13	40.45	
G45	39.17	36.91	47.76	34.84	44.5	47.49	37.14	50.52	39.17	
G46	37.79	35.49	46.11	33.28	42.75	45.74	35.67	48.73	37.79	
G47	36.5	33.97	44.31	31.9	41.14	44.13	34.15	46.8	36.5	
G48	35.03	32.22	42.66	30.2	39.39	42.47	32.91	45.14	35.03	
G49	33.51	30.61	40.64	28.36	37.79	40.77	31.17	43.53	33.51	
G50	31.95	28.91	38.84	26.57	35.76	39.21	29.88	41.69	31.95	
G51	30.52	27.03	37.0	24.82	33.69	37.56	27.95	40.13	30.52	
G52	28.82	25.24	35.26	23.03	31.63	35.72	26.06	38.34	28.82	
G53	26.94	23.44	32.87	21.38	29.83	33.56	24.23	36.45	26.94	
G54	25.14	21.83	30.94	19.72	27.95	31.67	22.52	34.48	25.14	
G55	23.26	20.23	29.05	18.39	26.29	29.65	20.87	32.36	23.26	
G56	21.51	18.8	27.4	16.87	24.55	27.95	19.58	30.29	21.51	
G57	19.9	17.28	25.65	15.54	23.03	26.06	17.88	28.59	19.9	
G58	18.57	16.04	23.9	14.3	21.38	24.59	16.64	26.8	18.57	
G59	17.05	14.62	22.29	13.1	20.09	22.85	15.12	25.14	17.05	
G60	15.77	13.56	20.96	12.0	18.76	21.47	14.11	23.58	15.77	
G61	14.48	12.27	19.58	10.99	17.47	20.0	12.83	21.93	14.48	
G62	13.33	11.4	18.34	9.79	16.23	18.71	11.77	20.46	13.33	
G63	12.37	10.2	17.1	8.92	15.12	17.42	10.57	19.17	12.37	
G64	11.08	9.29	15.95	7.86	14.02	16.27	9.65	17.84	11.08	
G65	10.25	8.32	14.76	6.99	12.96	15.17	8.73	16.64	10.25	
G66	9.15	7.45	13.61	6.11	11.95	14.07	7.86	15.49	9.15	
G67	8.46	6.67	12.6	5.47	11.12	13.1	7.08	14.3	8.46	
G68	7.45	5.88	11.58	4.64	10.25	12.0	6.34	13.24	7.45	
G69	6.67	5.1	10.62	3.95	9.42	11.08	5.56	12.37	6.67	
G70	5.88	4.41	9.88	3.31	8.64	10.3	4.96	11.35	5.88	
G71	5.29	3.82	9.1	2.85	7.91	9.52	4.18	10.43	5.29	
G72	4.46	3.26	8.27	2.3	7.17	8.78	3.68	9.56	4.46	
G73	3.82	2.67	7.63	1.93	6.48	7.95	3.03	8.73	3.82	

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/1/7 16:33:16

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

Test Time: 2025/1/7 16:33:16

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: 2025/1/7 16:33:16

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