Report No.: Test Time: 2025/1/7 18:46:22

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP110CT075H139-24°-25W
Lamp Type:
Luminous Width: 80 mm
Luminous Length: 80 mm
Luminous Height: 91 mm

Voltage(V): 219.80 V
Current(A): 0.1160 A
Power(W): 24.83 W
Power Factor: 0.9660
Lamp Luminous Flux: 1699.81

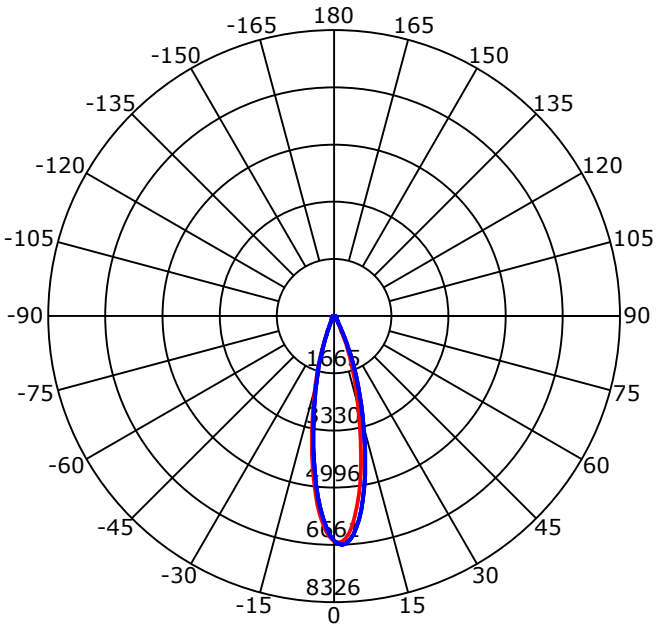
Photometric Results

CIE Class: Direct
Luminaire Luminous Flux: 1699.814 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 68.45 lm/W
Beam Angle(50%) C0-180,C90-270: 24.4,25.4
Field Angle(10%) C0-180,C90-270: 46.6,47.7
S/MH C0-180,C90-270: 0.425,0.462

Max. Intensity: 6660.96 cd
Max.Intensity Angle: C=90 Gamma=2
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 6555.37 cd
Effective Luminous Flux: 1339.73 lm
ERP(φuse)(120deg): 1661.06 lm

Picture of Luminaire

Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 24.4 deg,25.4 deg

C0-180 C90-270

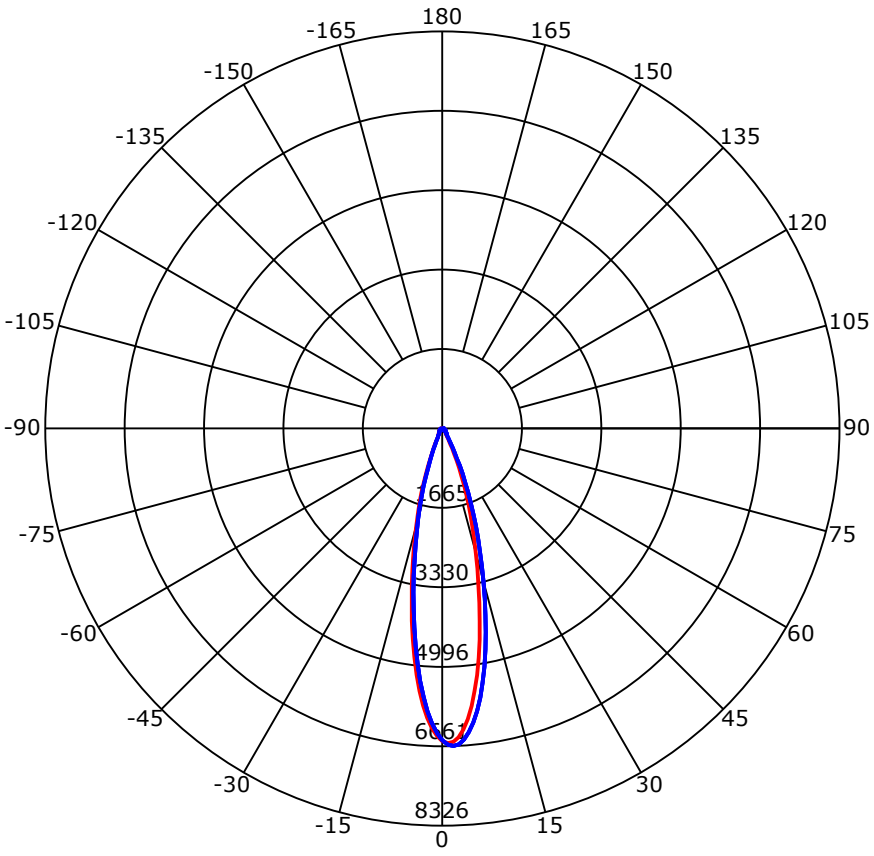
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/1/7 18:46:22

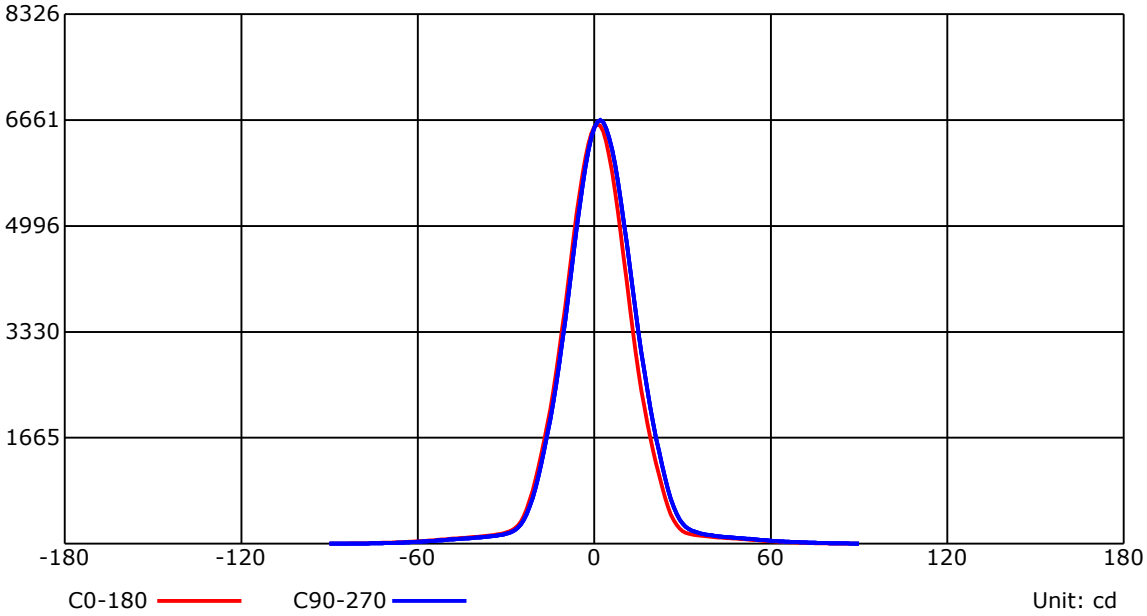
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.78 m
Remarks:

Report No.:

Test Time: 2025/1/7 18:46:22

Luminous Intensity Distribution Curve





C Range: 0 - 360 Deg
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Operators: QC01
Test Date: 2025/1/7 18:46:22

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Humidity: 60
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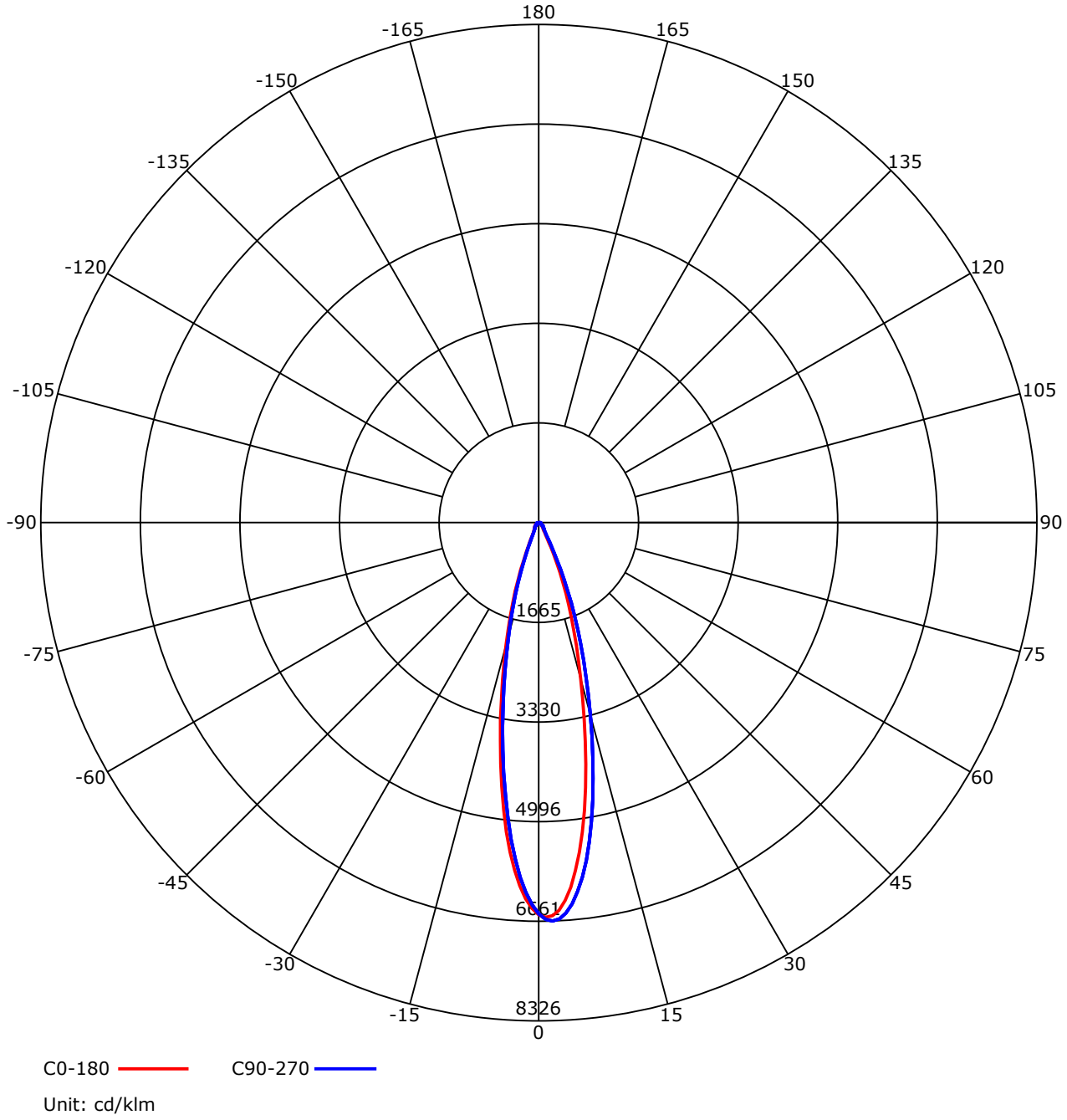
Remarks:

Report No.:

Test Time: 2025/1/7 18:46:22

Luminous Intensity Distribution Curve



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 18:46:22

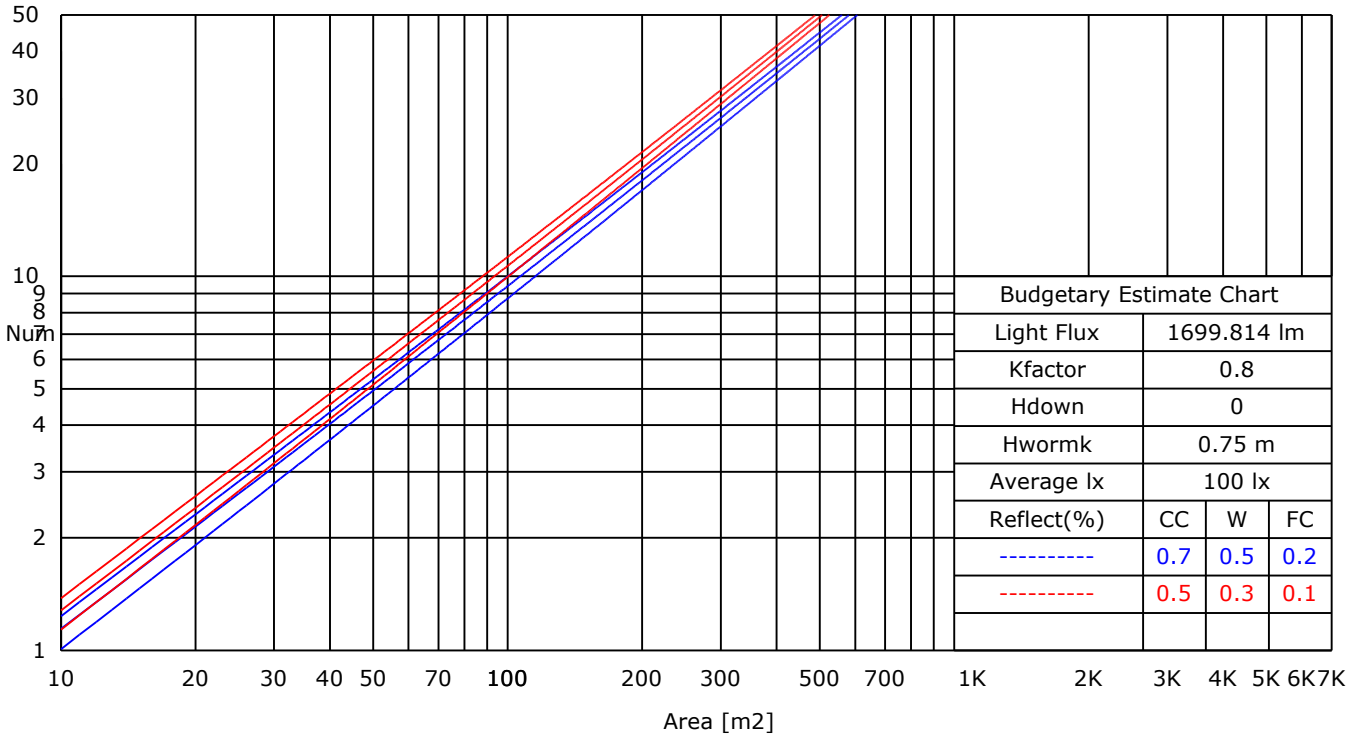
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.78 m
Remarks:

Report No.: Test Time: 2025/1/7 18:46:22

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	0.89	0.86	0.83	0.88	0.85	0.82	0.86	0.82	0.78	0.82	0.78	0.74	0.77	0.73	0.69	0.64
2	0.85	0.82	0.80	0.84	0.81	0.78	0.82	0.78	0.75	0.79	0.75	0.71	0.75	0.71	0.67	0.62
3	0.81	0.79	0.77	0.81	0.78	0.75	0.79	0.75	0.72	0.77	0.72	0.69	0.73	0.68	0.64	0.60
4	0.78	0.76	0.75	0.78	0.75	0.73	0.77	0.73	0.70	0.74	0.70	0.66	0.71	0.66	0.62	0.58
5	0.76	0.74	0.73	0.76	0.73	0.71	0.74	0.71	0.68	0.72	0.68	0.64	0.70	0.65	0.61	0.57
6	0.74	0.72	0.71	0.74	0.71	0.69	0.72	0.69	0.66	0.70	0.66	0.63	0.68	0.63	0.59	0.56
7	0.72	0.70	0.69	0.72	0.69	0.68	0.70	0.67	0.65	0.69	0.64	0.61	0.66	0.62	0.58	0.54
8	0.71	0.69	0.68	0.70	0.68	0.66	0.69	0.65	0.63	0.67	0.63	0.60	0.65	0.60	0.57	0.53
9	0.69	0.68	0.67	0.69	0.66	0.65	0.67	0.64	0.62	0.66	0.62	0.59	0.64	0.59	0.56	0.52
10	0.68	0.66	0.66	0.67	0.65	0.64	0.66	0.63	0.61	0.64	0.61	0.58	0.63	0.58	0.55	0.52

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



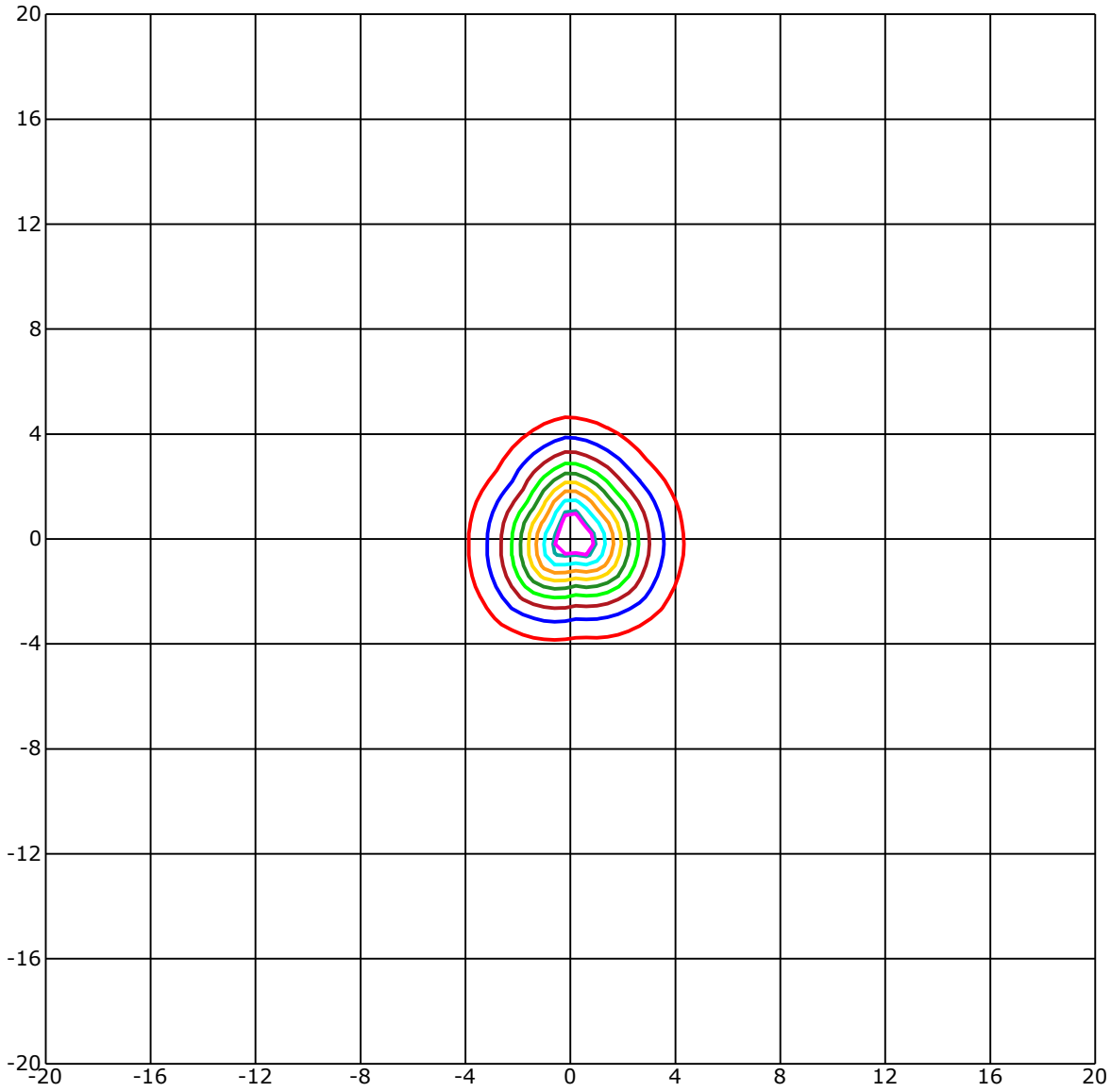
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/1/7 18:46:22

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 18:46:22

ISOLX DIAGRAM



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

- 61.169(92%Emax)
- 59.839(90%Emax)
- 53.19(80%Emax)
- 46.542(70%Emax)
- 39.893(60%Emax)
- 33.244(50%Emax)
- 26.595(40%Emax)
- 19.946(30%Emax)
- 13.298(20%Emax)
- 6.649(10%Emax)

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/1/7 18:46:22

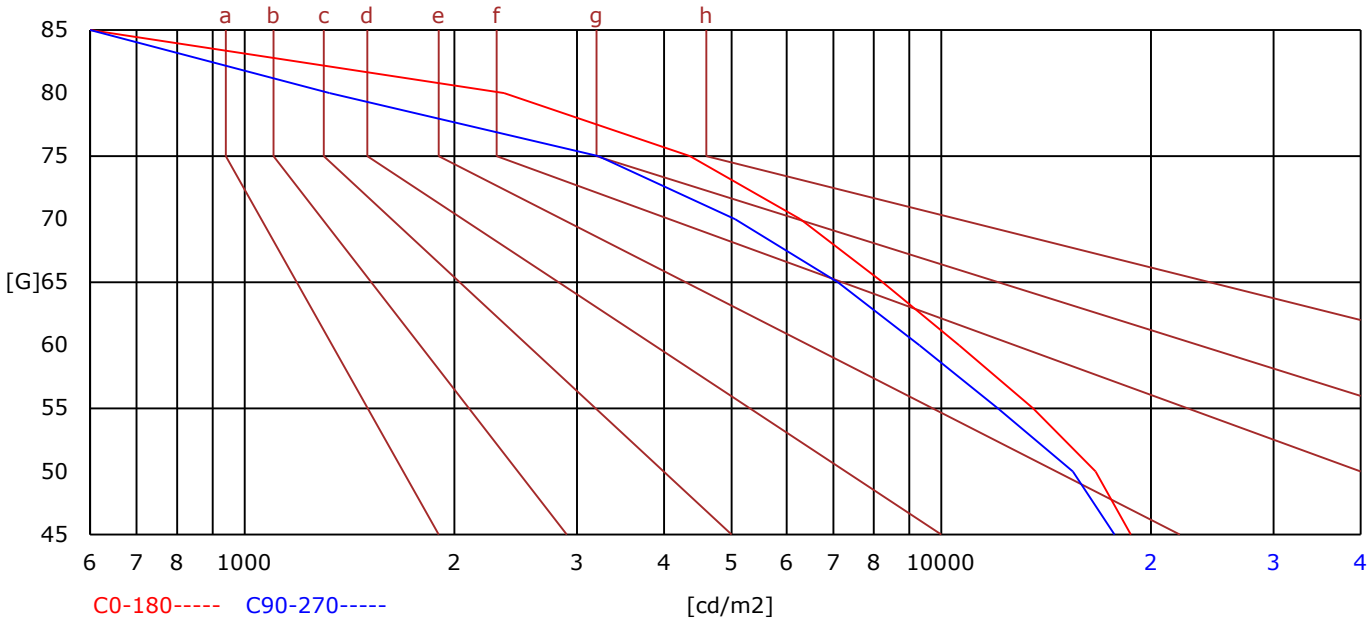
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.78 m
Remarks:

Report No.:

Test Time: 2025/1/7 18:46:22

BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	18710	16661	13549	10616	8243	6279	4357	2358	165
C90	17725	15443	12059	9309	7104	5061	3219	1324	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



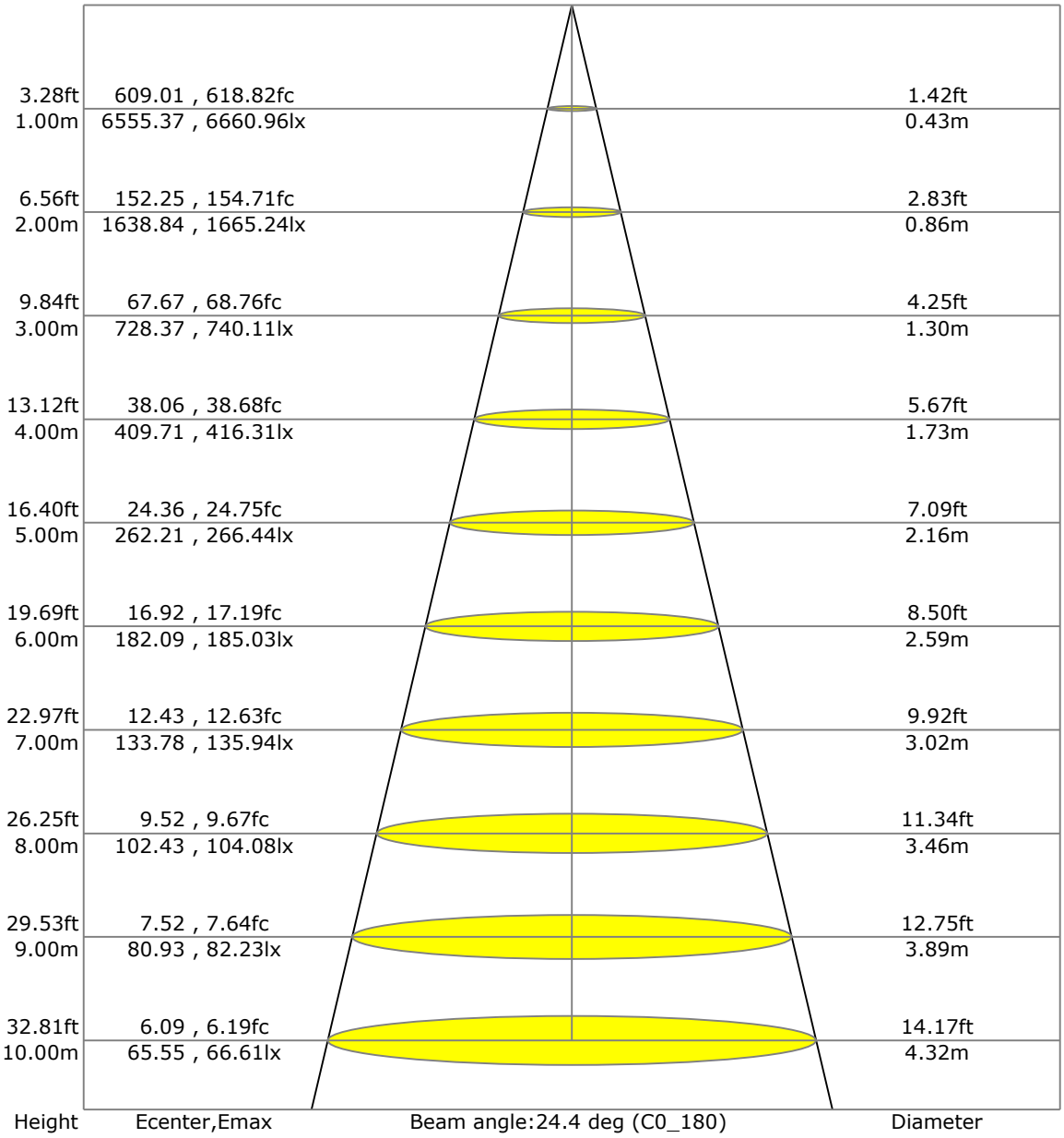
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/1/7 18:46:22

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 18:46:22

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 18:46:22

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 18:46:22

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	10.66	10.71	10.86	10.90	11.14	10.98	11.04	11.18	11.23	11.47
	3H	10.71	10.77	10.92	10.97	11.21	11.02	11.08	11.22	11.27	11.52
	4H	10.71	10.77	10.92	10.97	11.22	11.01	11.07	11.22	11.27	11.52
	6H	10.70	10.76	10.91	10.96	11.21	10.99	11.06	11.21	11.26	11.51
	8H	10.69	10.75	10.91	10.96	11.21	10.99	11.05	11.20	11.25	11.51
	12H	10.68	10.74	10.90	10.95	11.20	10.98	11.04	11.20	11.25	11.50
4H	2H	11.48	11.54	11.69	11.74	11.99	12.10	12.16	12.31	12.36	12.61
	3H	11.58	11.65	11.81	11.85	12.11	12.18	12.24	12.40	12.45	12.70
	4H	11.59	11.65	11.82	11.87	12.13	12.18	12.24	12.41	12.45	12.71
	6H	11.58	11.64	11.82	11.86	12.13	12.16	12.22	12.40	12.44	12.71
	8H	11.57	11.63	11.81	11.86	12.13	12.15	12.21	12.39	12.43	12.70
	12H	11.56	11.62	11.81	11.85	12.12	12.13	12.19	12.38	12.42	12.70
8H	4H	11.54	11.60	11.76	11.81	12.06	12.32	12.39	12.54	12.59	12.84
	6H	11.65	11.71	11.91	11.95	12.23	12.43	12.49	12.69	12.73	13.01
	8H	11.64	11.70	11.91	11.95	12.22	12.42	12.48	12.68	12.72	13.00
	12H	11.63	11.68	11.90	11.94	12.22	12.40	12.46	12.67	12.71	12.99
12H	4H	11.66	11.72	11.91	11.95	12.22	12.53	12.59	12.78	12.82	13.09
	6H	11.64	11.70	11.91	11.95	12.23	12.52	12.58	12.78	12.82	13.10

C Range: 0 - 360 Deg
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Operators: QC01
Test Date: 2025/1/7 18:46:22

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

ZONAL LUMINOUS FLUX TABLE

Gamma [deg]	Imean [cd]	Zonal Flux [lm]	Sum Flux [lm]	Zonal Flux [%]	Sum Flux [%]
0	6548.58	0.00	0.00	0.00	0.00
5	6083.46	147.92	147.92	8.70	8.70
10	4537.62	354.55	502.46	20.86	29.56
15	2809.85	386.77	889.24	22.75	52.31
20	1511.75	304.26	1193.50	17.90	70.21
25	627.37	179.35	1372.85	10.55	80.76
30	236.24	80.83	1453.68	4.76	85.52
35	145.50	48.24	1501.92	2.84	88.36
40	114.06	40.72	1542.64	2.40	90.75
45	93.75	36.78	1579.42	2.16	92.92
50	76.66	32.97	1612.39	1.94	94.86
55	57.73	27.63	1640.03	1.63	96.48
60	40.77	21.04	1661.06	1.24	97.72
65	27.80	15.28	1676.34	0.90	98.62
70	18.01	10.51	1686.85	0.62	99.24
75	10.77	6.70	1693.56	0.39	99.63
80	5.59	3.75	1697.31	0.22	99.85
85	2.46	1.75	1699.06	0.10	99.96
90	1.01	0.76	1699.82	0.04	100.00

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
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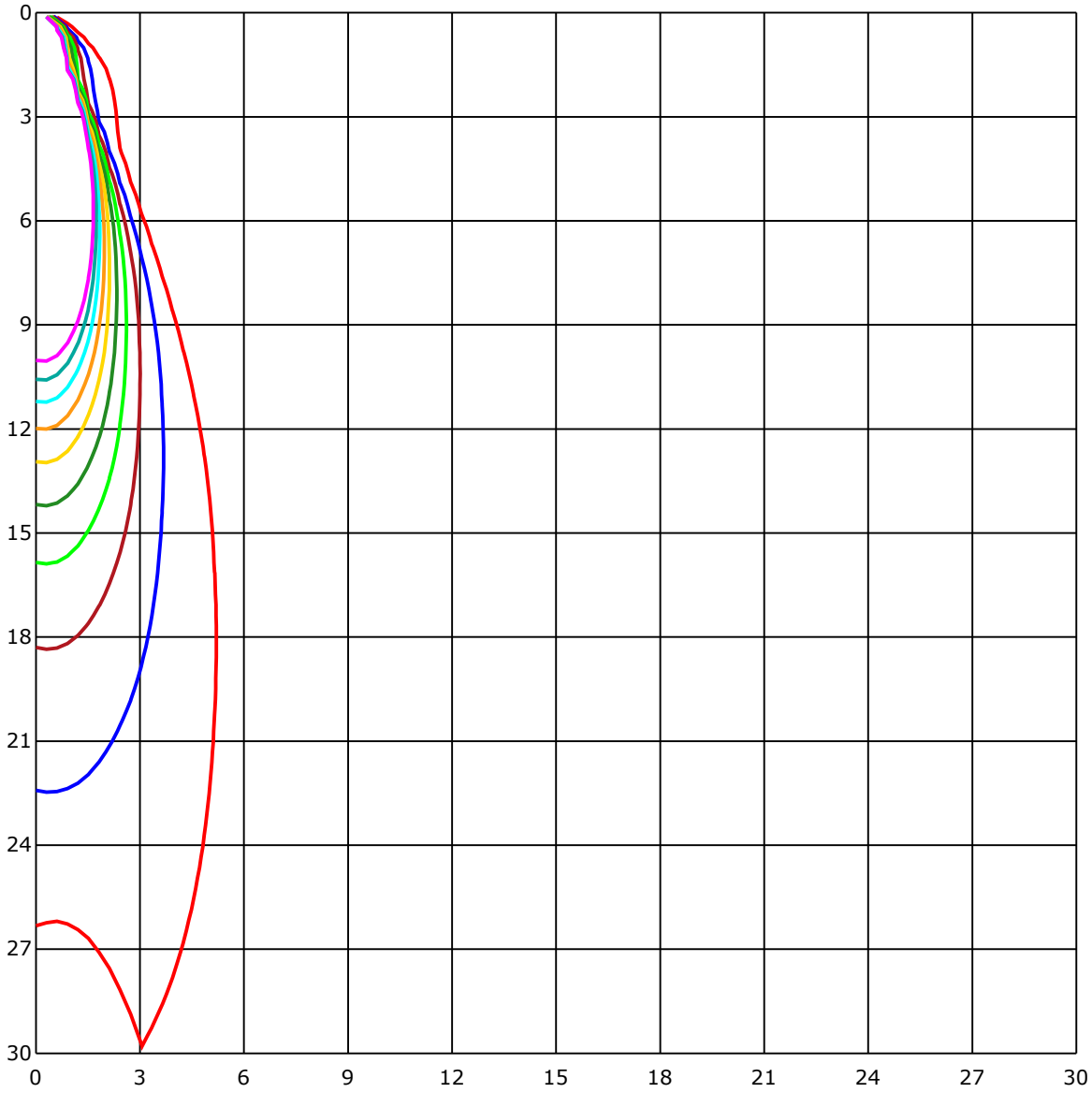
Temperature: 25
Operators: QC01
Test Date: 2025/1/7 18:46:22

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

SPACE ISOLX DIAGRAM



Unit of illumination:lx

65.229	32.614
58.706	26.092
52.183	19.569
45.66	13.046
39.137	6.523

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
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Temperature: 25
Operators: QC01
Test Date: 2025/1/7 18:46:22

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 18:46:22

LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	6555.37	6580.29	6536.02	6522.64	6555.37	6580.29	6536.02	6522.64	6555.37	
G1	6595.69	6543.97	6629.33	6406.48	6448.03	6556.8	6388.87	6578.63	6595.69	
G2	6572.06	6450.42	6660.96	6233.87	6289.54	6472.81	6181.83	6569.8	6572.06	
G3	6484.07	6301.99	6631.13	6008.76	6075.46	6337.99	5937.1	6490.74	6484.07	
G4	6327.64	6103.96	6537.49	5732.12	5820.47	6152.0	5641.75	6352.24	6327.64	
G5	6113.61	5864.01	6394.21	5416.64	5526.32	5923.49	5315.28	6156.87	6113.61	
G6	5846.49	5583.37	6199.71	5064.16	5194.38	5652.41	4954.29	5916.04	5846.49	
G7	5545.4	5272.58	5970.42	4689.88	4828.25	5346.45	4587.88	5628.42	5545.4	
G8	5220.95	4934.57	5699.02	4304.39	4453.6	5007.75	4213.28	5306.5	5220.95	
G9	4867.59	4578.13	5398.62	3927.68	4081.31	4652.83	3842.78	4951.99	4867.59	
G10	4496.17	4216.64	5068.15	3545.82	3706.34	4292.12	3486.2	4589.9	4496.17	
G11	4116.29	3861.07	4722.1	3190.81	3353.3	3937.47	3133.25	4220.59	4116.29	
G12	3737.28	3508.91	4368.84	2846.18	3011.53	3584.34	2801.64	3858.86	3737.28	
G13	3371.74	3167.64	4018.28	2534.97	2693.75	3248.31	2496.45	3502.98	3371.74	
G14	3025.23	2853.12	3670.44	2246.2	2392.24	2922.58	2214.34	3154.63	3025.23	
G15	2708.14	2549.87	3328.07	1986.57	2115.56	2612.94	1952.09	2834.32	2708.14	
G16	2412.56	2266.61	3009.78	1746.11	1861.63	2328.81	1707.68	2530.79	2412.56	
G17	2144.1	2005.65	2705.15	1526.2	1631.92	2059.98	1480.05	2256.27	2144.1	
G18	1891.74	1761.1	2421.02	1319.43	1415.41	1810.79	1263.17	2000.55	1891.74	
G19	1674.91	1532.59	2146.91	1127.56	1209.15	1571.98	1064.26	1766.66	1674.91	
G20	1461.2	1323.43	1898.59	943.82	1016.04	1349.4	882.04	1544.72	1461.2	
G21	1266.11	1125.81	1664.01	778.02	838.51	1144.61	721.38	1340.49	1266.11	
G22	1074.28	943.92	1447.18	624.99	679.14	955.91	580.54	1141.76	1074.28	
G23	898.68	774.98	1235.72	495.13	543.3	786.89	464.14	956.23	898.68	
G24	732.0	627.51	1043.02	389.77	433.16	637.63	371.98	783.9	732.0	
G25	584.76	505.93	860.48	312.45	349.41	515.12	302.38	629.35	584.76	
G26	459.96	406.82	704.33	256.32	286.93	419.23	250.99	501.65	459.96	
G27	363.43	329.09	569.09	216.92	243.13	343.43	213.94	401.44	363.43	
G28	290.89	270.57	463.13	188.84	212.24	287.21	188.06	324.12	290.89	
G29	238.71	227.87	380.11	170.22	190.54	244.78	169.3	268.36	238.71	
G30	200.01	197.3	316.72	156.94	175.05	215.68	155.37	227.36	200.01	
G31	174.86	175.28	268.36	147.01	163.33	193.94	144.43	199.18	174.86	
G32	158.55	160.34	233.75	138.5	153.53	177.9	135.51	179.46	158.55	
G33	147.14	148.75	208.37	131.29	145.86	165.62	128.34	165.35	147.14	
G34	138.41	139.7	190.22	124.76	138.64	155.7	121.72	154.82	138.41	
G35	131.61	131.56	175.46	119.24	132.8	146.73	115.84	146.59	131.61	
G36	125.54	124.67	163.65	113.86	126.87	138.96	111.06	139.28	125.54	

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: 6.78 m
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	120.48	118.87	153.35	109.13	121.95	131.98	106.14	133.26	120.48	
G38	115.47	113.22	144.57	104.76	117.22	126.18	102.1	127.98	115.47	
G39	111.15	108.21	136.89	100.99	113.22	120.44	98.23	123.38	111.15	
G40	106.92	103.61	130.32	96.95	108.95	115.47	94.69	118.78	106.92	
G41	103.15	99.43	123.84	93.59	105.31	110.65	90.97	114.74	103.15	
G42	99.34	95.43	118.64	90.1	101.31	106.55	87.8	110.74	99.34	
G43	95.75	91.62	113.22	86.65	97.82	102.28	84.17	107.06	95.75	
G44	92.49	88.21	108.72	83.75	94.19	98.42	81.04	103.2	92.49	
G45	89.04	84.67	104.49	80.21	90.65	94.74	77.73	99.89	89.04	
G46	85.87	81.5	100.49	76.81	87.34	91.39	74.74	96.21	85.87	
G47	82.7	78.19	96.35	73.69	83.75	87.85	71.39	92.99	82.7	
G48	79.76	75.02	92.86	70.33	80.17	84.4	68.49	89.5	79.76	
G49	76.86	71.8	89.09	66.93	76.77	80.95	64.72	86.14	76.86	
G50	73.27	68.54	85.59	63.53	72.45	77.64	61.14	82.56	73.27	
G51	70.15	65.23	81.96	59.44	68.54	73.5	57.18	79.53	70.15	
G52	66.84	61.32	78.65	55.25	64.63	69.41	53.42	75.8	66.84	
G53	63.11	57.28	74.61	51.62	60.63	65.64	49.97	71.76	63.11	
G54	58.89	53.51	70.15	47.49	56.73	61.55	46.06	67.48	58.89	
G55	55.12	49.74	65.96	44.27	53.19	57.64	42.75	63.53	55.12	
G56	51.35	45.92	61.92	41.0	49.65	54.06	39.85	59.62	51.35	
G57	47.58	42.8	58.06	38.02	46.2	50.7	36.87	55.99	47.58	
G58	44.13	39.81	54.43	35.21	42.93	47.03	34.25	52.31	44.13	
G59	41.14	36.87	50.89	32.5	40.04	43.99	31.53	49.19	41.14	
G60	38.11	33.97	47.16	29.79	37.33	41.19	29.14	45.55	38.11	
G61	35.4	31.49	44.04	27.54	34.84	38.38	26.8	42.66	35.4	
G62	32.59	29.05	41.14	25.28	32.22	35.76	24.73	39.72	32.59	
G63	29.97	26.62	38.34	23.12	30.06	33.19	22.52	36.96	29.97	
G64	27.63	24.41	35.63	21.05	27.76	30.89	20.59	34.43	27.63	
G65	25.47	22.29	33.19	19.21	25.74	28.64	18.8	32.04	25.47	
G66	23.08	20.46	30.89	17.38	23.67	26.48	17.05	29.56	23.08	
G67	21.24	18.57	28.5	15.54	21.83	24.41	15.12	27.35	21.24	
G68	19.21	16.92	26.39	13.93	20.09	22.52	13.61	25.28	19.21	
G69	17.47	15.17	24.41	12.5	18.43	20.69	12.09	23.35	17.47	
G70	15.68	13.74	22.52	11.08	17.05	18.98	10.8	21.42	15.68	
G71	14.2	12.27	20.69	9.84	15.49	17.47	9.47	19.72	14.2	
G72	12.73	10.8	19.08	8.5	14.02	15.91	8.27	18.07	12.73	
G73	11.22	9.61	17.61	7.45	12.78	14.43	7.17	16.5	11.22	

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/1/7 18:46:22

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 18:46:22

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 2)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G74	9.93	8.41	15.95	6.25	11.45	13.1	6.11	14.94	9.93	
G75	8.69	7.22	14.57	5.33	10.43	11.81	5.1	13.65	8.69	
G76	7.49	6.25	13.47	4.32	9.38	10.66	4.14	12.32	7.49	
G77	6.44	5.19	11.95	3.4	8.32	9.61	3.26	11.12	6.44	
G78	5.42	4.28	10.89	2.57	7.35	8.64	2.53	9.84	5.42	
G79	4.55	3.4	9.75	2.07	6.62	7.72	1.75	8.83	4.55	
G80	3.59	2.62	8.73	1.47	5.7	6.76	1.2	7.77	3.59	
G81	2.9	1.93	7.72	0.92	5.15	5.98	0.69	6.94	2.9	
G82	2.07	1.43	6.85	0.37	4.5	5.33	0.23	6.11	2.07	
G83	1.47	0.83	6.02	0.05	4.09	4.73	0.0	5.52	1.47	
G84	1.01	0.41	5.56	0.0	3.63	4.18	0.0	4.87	1.01	
G85	0.64	0.09	4.78	0.0	3.22	3.63	0.0	4.28	0.64	
G86	0.28	0.0	4.09	0.0	2.85	3.31	0.0	3.63	0.28	
G87	0.0	0.0	3.45	0.0	2.48	2.8	0.0	3.13	0.0	
G88	0.0	0.0	2.99	0.0	2.3	2.39	0.0	2.62	0.0	
G89	0.0	0.0	2.34	0.0	1.79	1.88	0.0	2.02	0.0	
G90	0.0	0.0	0.0	0.0	0.0	1.88	0.0	2.02	0.0	

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/1/7 18:46:22

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