

Report No.:

Test Time: 2025/8/1 18:04:11

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP104SCT095H124-2F-EB-15°
Lamp Type:
Luminous Width: 90 mm
Luminous Length: 185 mm
Luminous Height: 70 mm

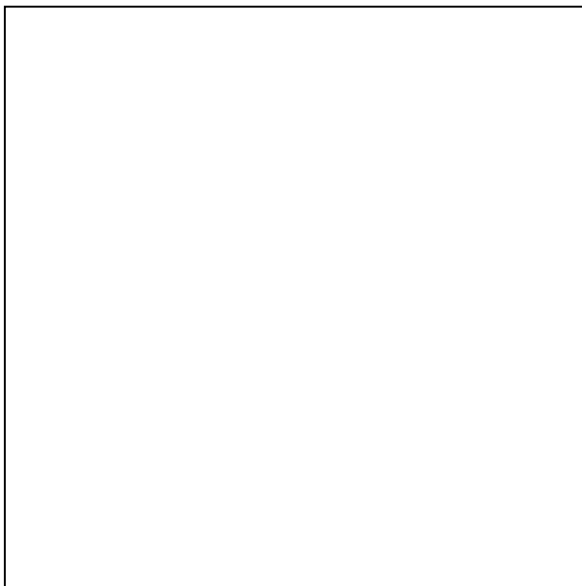
Voltage(V): 219.80 V
Current(A): 0.2260 A
Power(W): 48.13 W
Power Factor: 0.9660
Lamp Luminous Flux: 3169.90

Photometric Results

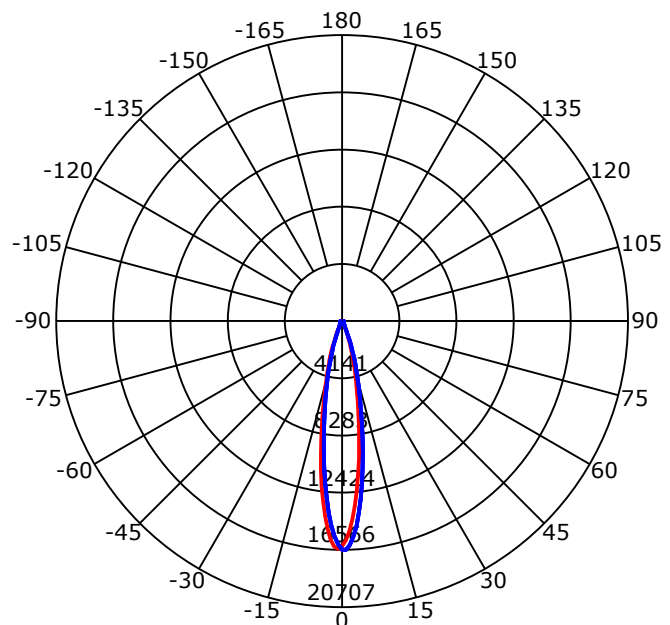
CIE Class: Direct
Luminaire Luminous Flux: 3169.896 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 65.87 lm/W
Beam Angle(50%) C0-180,C90-270: 19.0,19.5
Field Angle(10%) C0-180,C90-270: 40.3,40.8
S/MH C0-180,C90-270: 0.353,0.353

Max. Intensity: 16565.97 cd
Max.Intensity Angle: C=90 Gamma=1
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 16299.26 cd
Effective Luminous Flux: 2219.20 lm
ERP(ϕ use)(120deg): 3002.62 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 19.0 deg,19.5 deg

C0-180 — C90-270 —

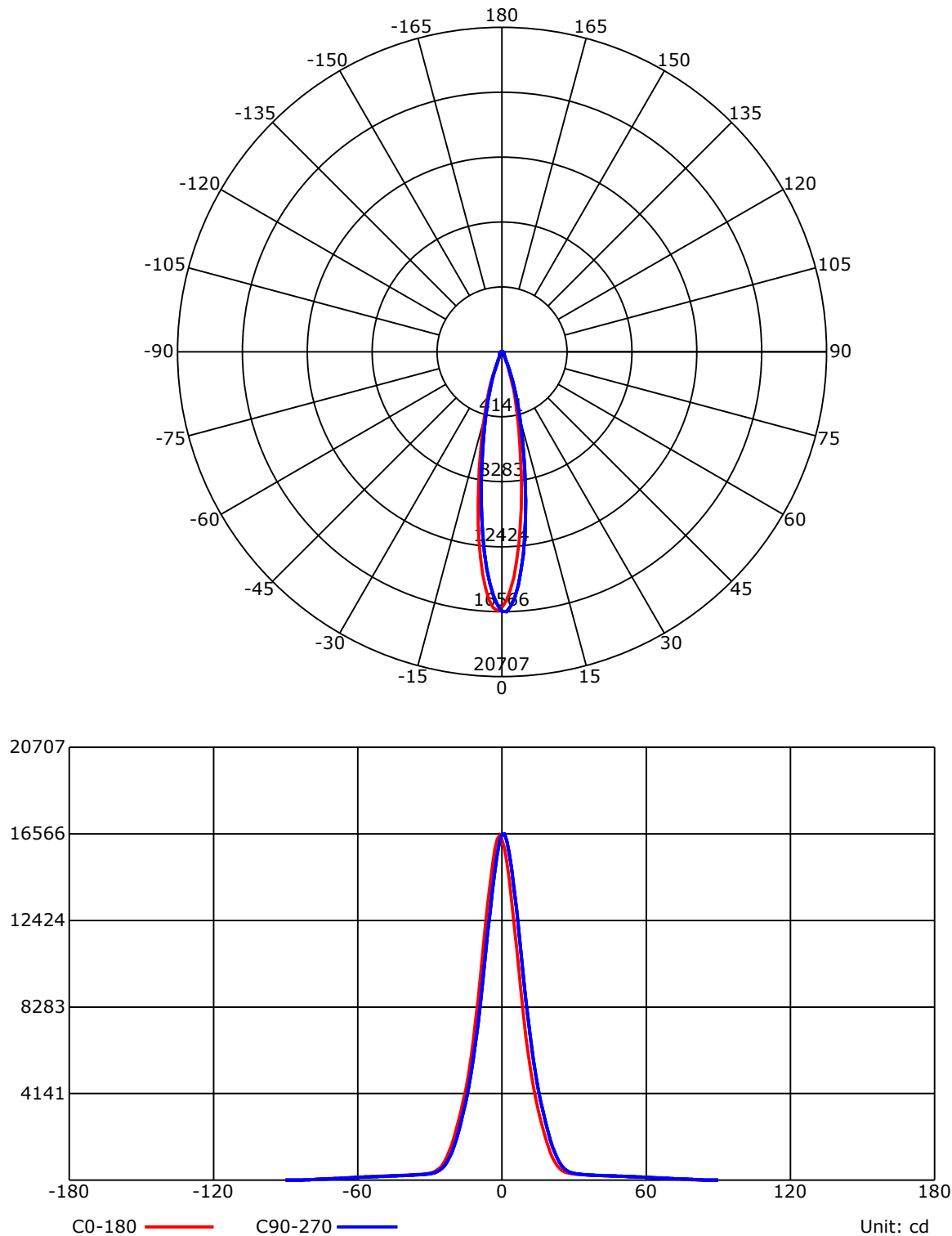
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/8/1 18:04:11

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



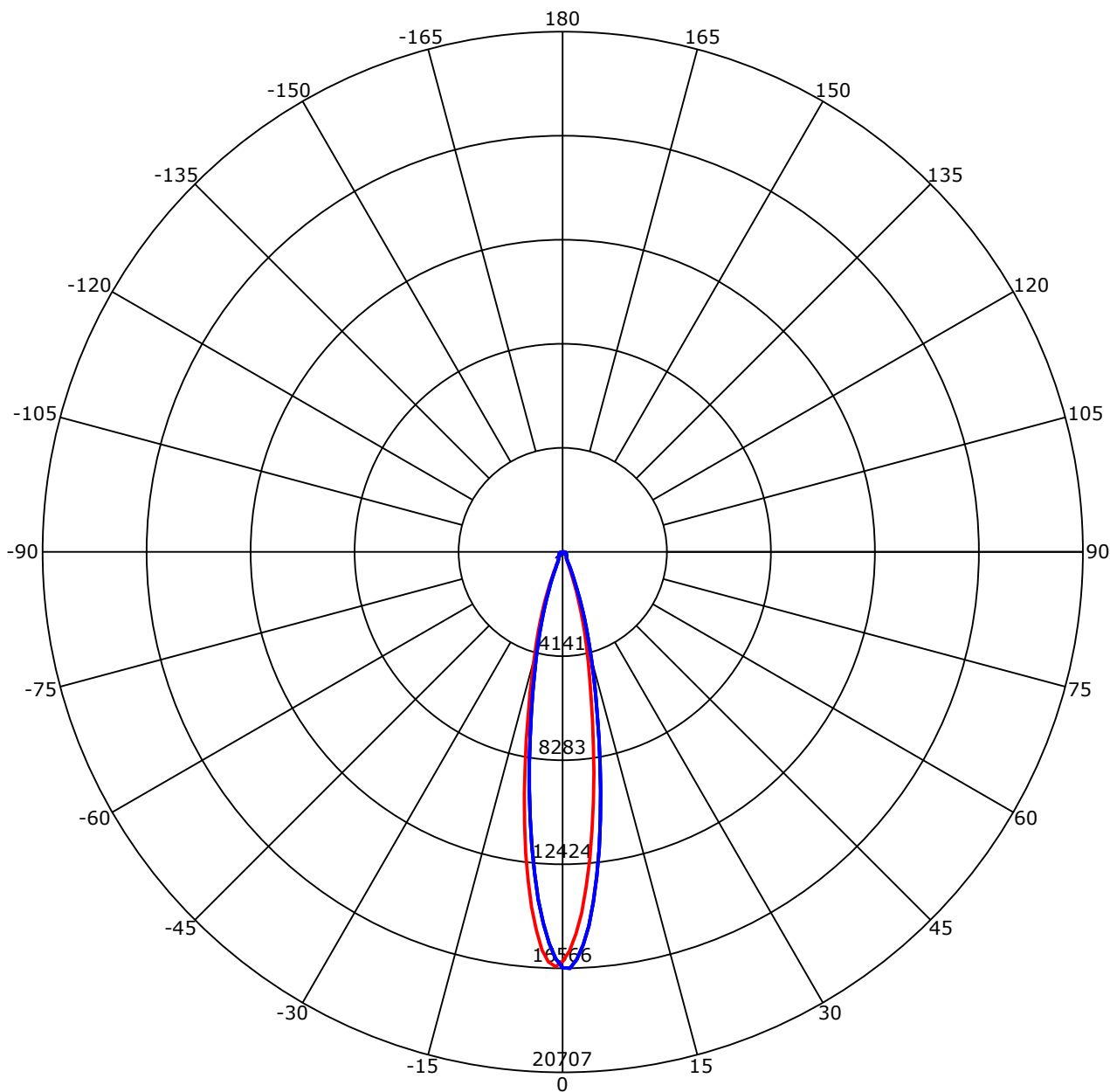
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/8/1 18:04:11

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: 2025/8/1 18:04:11

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

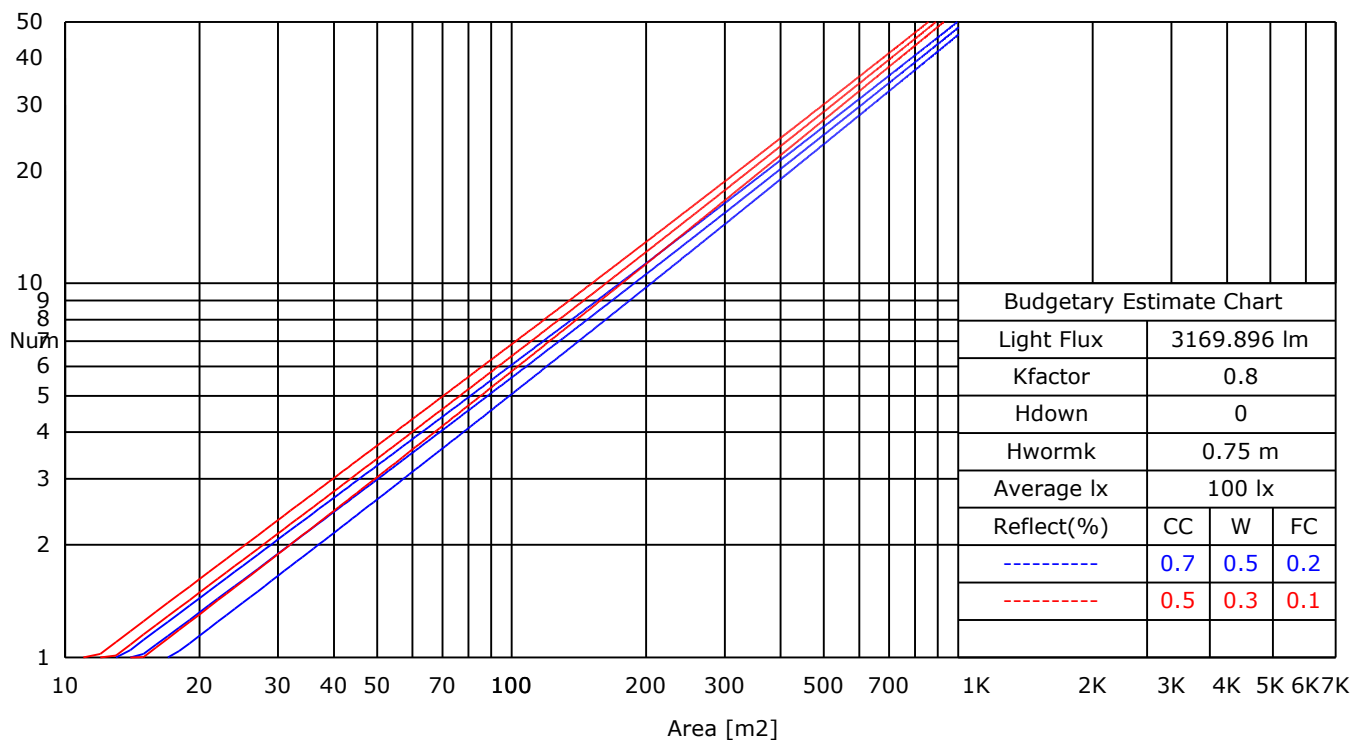
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UTILIZATION FACTORS TABLE

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	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	0.83	0.80	0.76	0.83	0.79	0.75	0.81	0.76	0.72	0.78	0.73	0.69	0.73	0.68	0.64	0.59
2	0.78	0.75	0.72	0.78	0.74	0.71	0.77	0.72	0.68	0.74	0.69	0.65	0.70	0.65	0.61	0.56
3	0.74	0.71	0.69	0.74	0.70	0.67	0.73	0.68	0.65	0.71	0.66	0.62	0.68	0.62	0.58	0.53
4	0.70	0.68	0.66	0.70	0.67	0.65	0.70	0.65	0.62	0.68	0.63	0.59	0.66	0.60	0.55	0.51
5	0.67	0.65	0.63	0.68	0.64	0.62	0.67	0.63	0.59	0.66	0.61	0.57	0.64	0.58	0.53	0.50
6	0.65	0.63	0.61	0.65	0.62	0.60	0.65	0.60	0.57	0.63	0.58	0.55	0.62	0.56	0.52	0.48
7	0.63	0.61	0.60	0.63	0.60	0.58	0.63	0.59	0.56	0.61	0.57	0.53	0.60	0.54	0.50	0.47
8	0.61	0.59	0.58	0.61	0.59	0.57	0.61	0.57	0.54	0.60	0.55	0.52	0.58	0.53	0.49	0.46
9	0.60	0.58	0.57	0.60	0.57	0.56	0.59	0.56	0.53	0.58	0.54	0.51	0.57	0.52	0.48	0.45
10	0.59	0.57	0.56	0.58	0.56	0.55	0.58	0.54	0.52	0.57	0.53	0.49	0.56	0.51	0.47	0.44

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



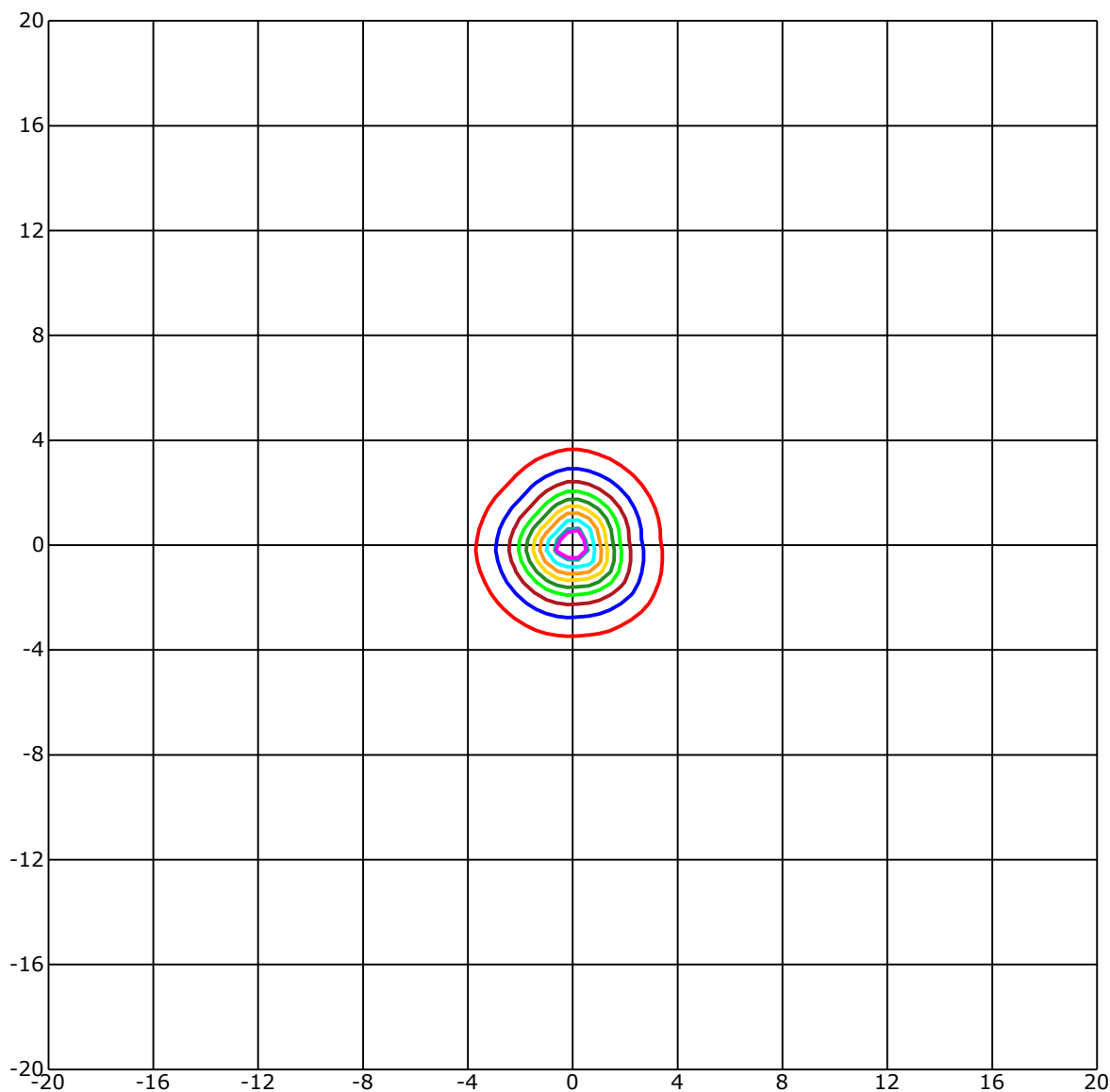
C Range: 0 - 360 Deg
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Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/8/1 18:04:11

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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ISOLX DIAGRAM



C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/8/1 18:04:11

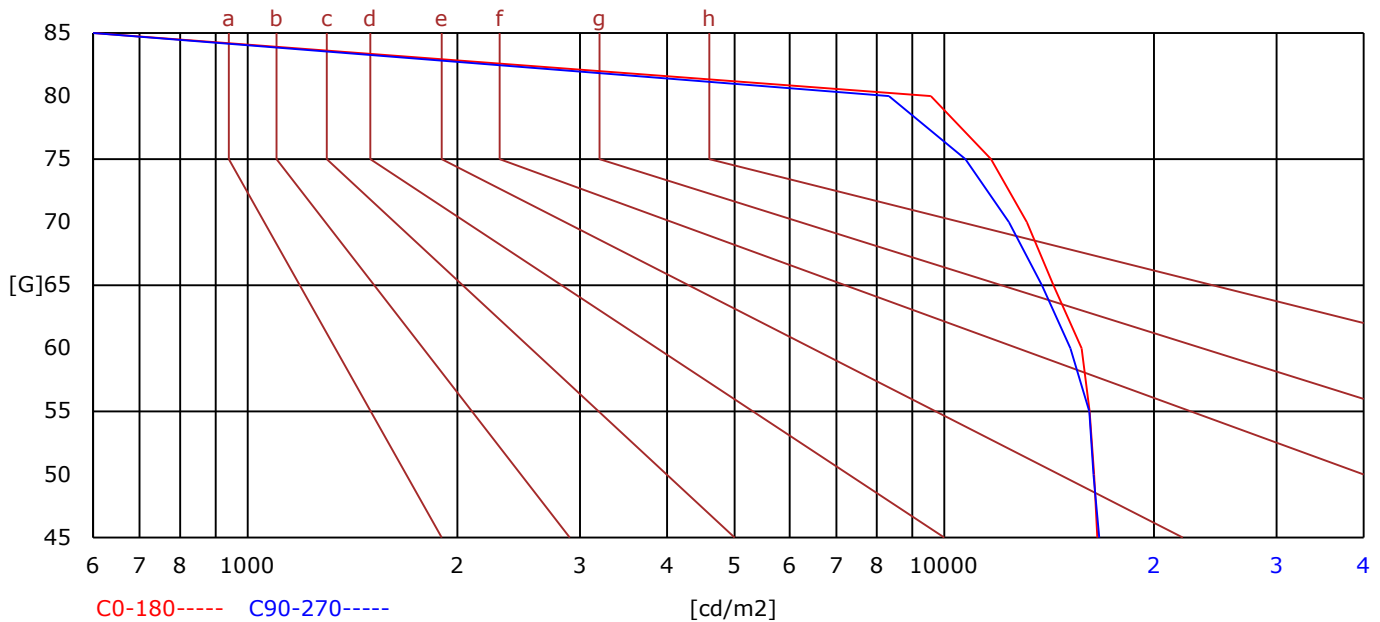
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	16580	16409	16175	15738	14340	13136	11675	9566	0
C90	16685	16374	16156	15177	13804	12390	10722	8325	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



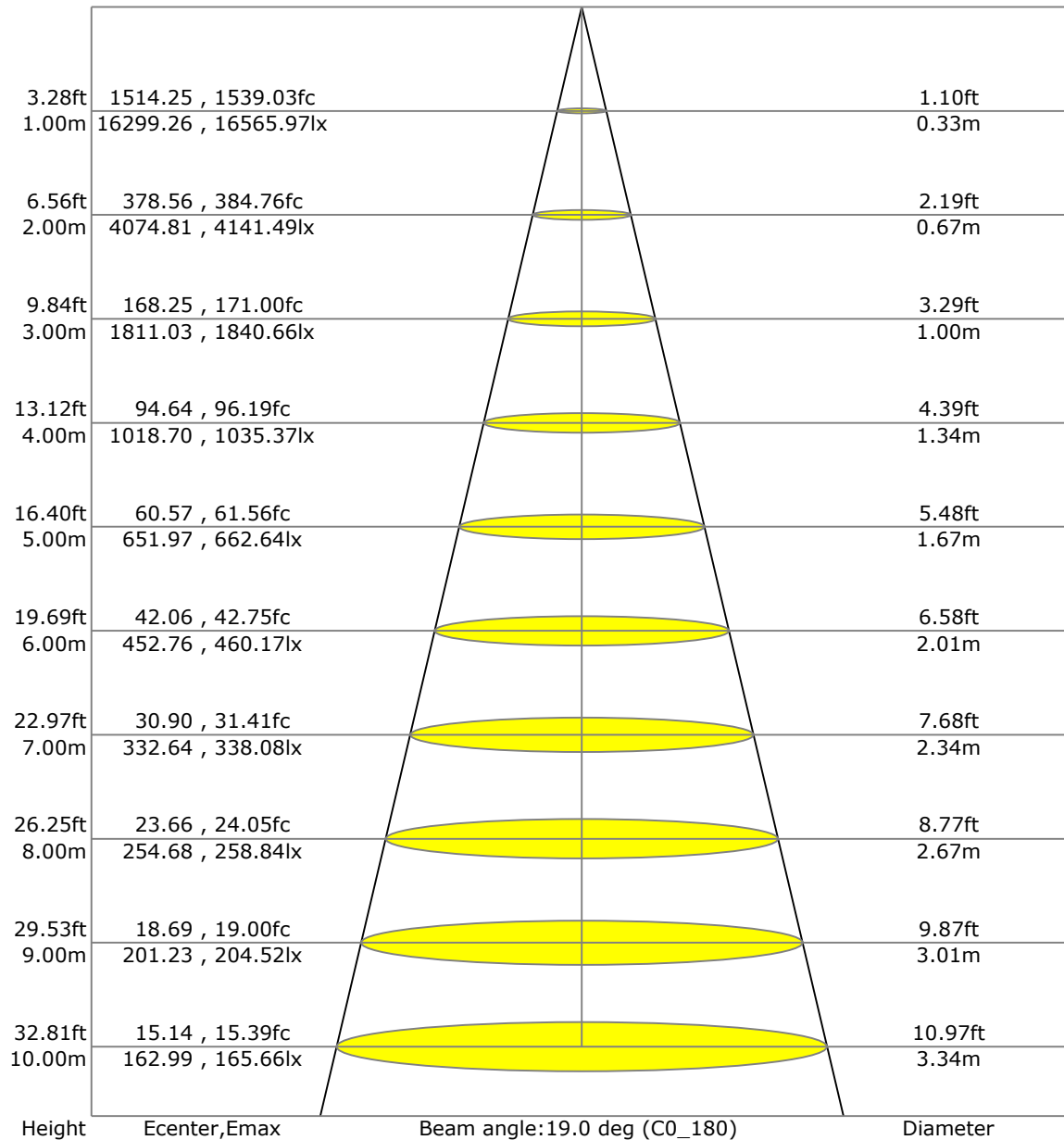
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Temperature: 25
Operators: QC01
Test Date: 2025/8/1 18:04:11

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: 2025/8/1 18:04:11

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	10.60	10.67	10.80	10.85	11.10	10.69	10.75	10.89	10.94	11.19
3H	10.76	10.83	10.96	11.02	11.27	10.83	10.90	11.03	11.09	11.34
4H	10.77	10.85	10.99	11.04	11.29	10.84	10.91	11.05	11.11	11.36
6H	10.77	10.84	10.98	11.04	11.29	10.83	10.90	11.05	11.10	11.35
8H	10.76	10.83	10.98	11.03	11.29	10.82	10.89	11.04	11.09	11.35
12H	10.75	10.82	10.97	11.02	11.28	10.81	10.88	11.03	11.09	11.34
4H 2H	12.53	12.61	12.75	12.80	13.05	12.79	12.86	13.00	13.05	13.30
3H	12.84	12.91	13.06	13.12	13.37	13.07	13.15	13.30	13.35	13.61
4H	12.91	12.98	13.14	13.19	13.45	13.13	13.20	13.36	13.42	13.68
6H	12.92	12.99	13.16	13.21	13.48	13.13	13.20	13.37	13.42	13.69
8H	12.91	12.98	13.15	13.21	13.47	13.12	13.19	13.36	13.41	13.68
12H	12.89	12.96	13.15	13.20	13.47	13.10	13.17	13.35	13.40	13.67
8H 4H	12.74	12.82	12.96	13.02	13.27	13.19	13.27	13.42	13.47	13.73
6H	13.23	13.30	13.49	13.54	13.82	13.69	13.76	13.95	14.00	14.27
8H	13.23	13.29	13.49	13.54	13.82	13.68	13.74	13.94	13.99	14.27
12H	13.21	13.27	13.48	13.53	13.81	13.66	13.72	13.93	13.98	14.26
12H 4H	13.19	13.25	13.44	13.49	13.76	13.68	13.75	13.93	13.98	14.25
6H	13.22	13.28	13.48	13.53	13.81	13.70	13.77	13.97	14.01	14.29

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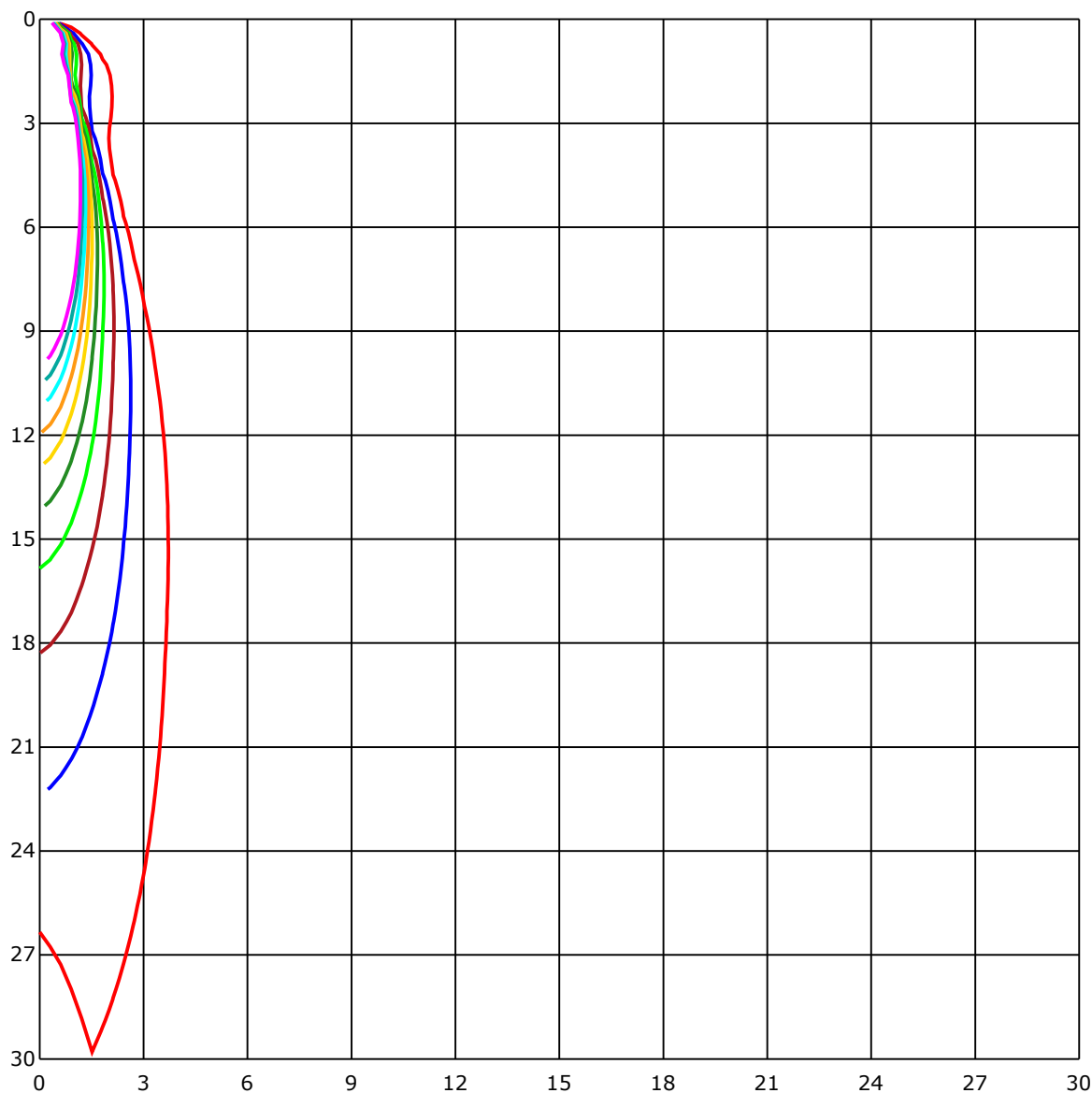
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

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

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SPACE ISOLX DIAGRAM



Unit of illumination:lx

162.306	81.153
146.076	64.922
129.845	48.692
113.614	32.461
97.384	16.231

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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	16299.26	16556.58	16543.69	16469.36	16299.26	16556.58	16543.69	16469.36	16299.26	
G1	15865.47	16309.41	16565.97	16049.35	16500.18	16438.82	16172.96	16492.96	15865.47	
G2	15199.95	15846.92	16220.11	15392.7	16318.38	15969.87	15584.37	16221.43	15199.95	
G3	14389.3	15134.58	15645.35	14545.94	15852.54	15259.42	14790.75	15741.3	14389.3	
G4	13375.93	14298.35	14912.24	13567.13	15075.44	14404.82	13884.53	14977.6	13375.93	
G5	12292.1	13339.59	13972.12	12498.35	14192.01	13419.59	12840.62	14095.78	12292.1	
G6	11153.95	12290.5	12983.77	11366.43	13166.38	12351.47	11779.68	13075.76	11153.95	
G7	10030.29	11161.22	11888.62	10183.96	12092.93	11250.51	10656.63	11983.95	10030.29	
G8	8886.75	10025.05	10746.31	9048.97	10927.78	10128.74	9549.44	10851.7	8886.75	
G9	7816.42	8922.9	9616.27	7977.27	9767.87	9040.14	8472.17	9728.98	7816.42	
G10	6819.06	7882.78	8557.36	6968.91	8643.26	7969.95	7476.08	8587.85	6819.06	
G11	5928.88	6912.41	7535.03	6100.62	7611.21	6995.81	6557.49	7560.24	5928.88	
G12	5162.73	6055.55	6628.71	5317.86	6632.3	6129.46	5744.19	6612.66	5162.73	
G13	4512.59	5297.43	5792.62	4651.92	5793.56	5345.71	5025.76	5792.48	4512.59	
G14	3917.15	4610.81	5062.95	4050.82	5045.49	4686.46	4377.7	5071.64	3917.15	
G15	3401.2	3979.31	4410.41	3515.51	4410.31	4094.43	3799.54	4446.37	3401.2	
G16	2919.6	3434.38	3830.69	3035.71	3855.0	3550.62	3281.18	3867.83	2919.6	
G17	2463.25	2941.59	3302.6	2595.17	3352.25	3056.52	2792.17	3345.55	2463.25	
G18	2043.34	2477.27	2825.44	2175.12	2894.96	2603.24	2349.93	2863.25	2043.34	
G19	1688.94	2054.62	2381.65	1792.59	2475.48	2179.93	1959.52	2417.52	1688.94	
G20	1358.42	1680.82	1973.59	1457.87	2059.01	1805.33	1614.61	2009.13	1358.42	
G21	1079.2	1355.07	1611.73	1164.4	1693.14	1471.6	1309.86	1643.96	1079.2	
G22	850.11	1084.21	1303.58	922.61	1377.3	1186.44	1054.66	1320.57	850.11	
G23	677.04	858.7	1039.37	736.04	1105.73	946.77	843.31	1055.75	677.04	
G24	551.54	684.92	827.03	589.54	880.27	760.53	681.66	842.84	551.54	
G25	458.19	555.37	663.4	485.33	705.88	624.13	563.34	682.47	458.19	
G26	393.86	457.9	544.51	408.06	576.46	522.75	475.23	563.86	393.86	
G27	353.13	389.52	453.37	358.93	488.58	444.45	404.67	478.44	353.13	
G28	323.44	344.3	393.2	324.01	417.65	391.12	360.07	412.88	323.44	
G29	303.1	314.28	351.38	302.39	371.96	352.8	328.68	370.54	303.1	
G30	288.04	293.0	323.82	284.83	340.9	328.21	308.01	342.13	288.04	
G31	277.9	277.19	303.24	272.75	320.75	308.53	290.97	320.33	277.9	
G32	268.27	265.2	288.09	264.21	302.44	296.25	279.22	305.08	268.27	
G33	261.33	255.57	275.58	257.55	292.34	284.83	269.49	293.28	261.33	
G34	254.63	250.14	267.23	250.0	280.16	275.11	263.26	283.09	254.63	
G35	249.48	241.79	259.02	245.75	272.89	267.13	254.01	275.44	249.48	
G36	243.02	237.16	252.74	239.1	265.11	261.05	248.4	267.09	243.02	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2025/8/1 18:04:11

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 DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	239.1	231.69	245.28	234.52	259.16	252.55	241.22	260.81	239.1	
G38	233.53	226.07	240.37	227.68	251.89	246.84	236.69	253.78	233.53	
G39	227.35	221.26	234.33	222.53	247.17	241.13	231.5	247.41	227.35	
G40	222.58	217.62	229.47	218.95	241.36	235.61	225.6	242.21	222.58	
G41	218.47	212.1	223.95	214.84	235.7	230.08	219.89	236.36	218.47	
G42	212.72	207.19	219.18	208.94	230.51	226.4	216.35	229.94	212.72	
G43	208.8	206.49	214.13	205.97	226.12	220.46	211.02	225.46	208.8	
G44	204.65	200.3	210.17	200.68	220.79	215.41	207.43	220.5	204.65	
G45	200.96	195.21	207.01	196.43	216.11	211.63	201.86	214.98	200.96	
G46	196.29	191.57	202.81	191.9	211.77	207.05	198.37	210.26	196.29	
G47	191.71	186.71	199.22	187.99	208.52	203.99	192.28	208.37	191.71	
G48	186.33	183.22	193.84	184.16	205.21	197.19	189.64	202.99	186.33	
G49	183.03	179.54	188.36	180.24	198.75	192.8	184.21	197.42	183.03	
G50	178.12	175.62	185.91	175.24	193.93	189.31	180.67	192.47	178.12	
G51	174.44	171.66	180.01	171.18	189.35	184.96	175.15	188.22	174.44	
G52	169.58	168.21	176.75	167.69	185.15	180.15	171.23	183.69	169.58	
G53	165.99	162.78	171.56	163.49	181.61	175.29	166.09	178.88	165.99	
G54	161.18	160.52	168.35	158.35	175.76	171.09	162.5	174.3	161.18	
G55	156.65	154.48	162.64	154.29	172.03	166.32	157.21	171.42	156.65	
G56	152.82	150.65	159.48	150.27	166.84	161.56	153.2	165.52	152.82	
G57	149.1	147.44	154.95	146.07	162.83	156.69	148.91	161.41	149.1	
G58	142.63	142.63	151.31	139.66	157.73	152.02	145.04	156.69	142.63	
G59	136.26	136.97	145.18	133.33	152.78	145.46	136.87	152.07	136.26	
G60	129.41	131.02	139.37	126.35	146.17	138.71	130.69	145.18	129.41	
G61	124.32	124.98	132.58	121.01	138.85	133.19	123.75	139.56	124.32	
G62	117.19	119.13	126.39	114.12	131.63	126.44	118.46	132.53	117.19	
G63	111.38	112.99	120.54	108.65	125.97	120.21	112.19	126.58	111.38	
G64	105.44	107.33	114.97	103.79	119.31	114.5	106.19	119.93	105.44	
G65	100.25	100.91	108.88	97.13	113.56	108.22	100.48	114.26	100.25	
G66	93.59	96.28	103.31	91.28	108.36	101.71	95.2	107.56	93.59	
G67	88.59	90.57	97.23	85.9	102.04	95.62	88.54	102.79	88.59	
G68	83.07	85.0	92.84	81.93	95.57	90.95	83.77	96.38	83.07	
G69	78.87	79.57	86.37	75.52	89.91	85.24	77.83	90.52	78.87	
G70	72.21	74.81	82.12	70.56	84.34	79.95	72.64	85.19	72.21	
G71	67.73	69.8	76.32	65.65	79.05	74.1	67.11	79.76	67.73	
G72	62.49	65.08	71.55	60.51	74.05	70.28	62.16	74.52	62.49	
G73	57.91	60.65	66.08	56.35	68.86	64.47	57.77	69.43	57.91	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2025/8/1 18:04:11

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: 2025/8/1 18:04:11

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