

Report No.:

Test Time: 2024/7/23 17:39:17

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP104SCT120-15°-28W
Lamp Type:
Luminous Width: 111 mm
Luminous Length: 111 mm
Luminous Height: 97 mm

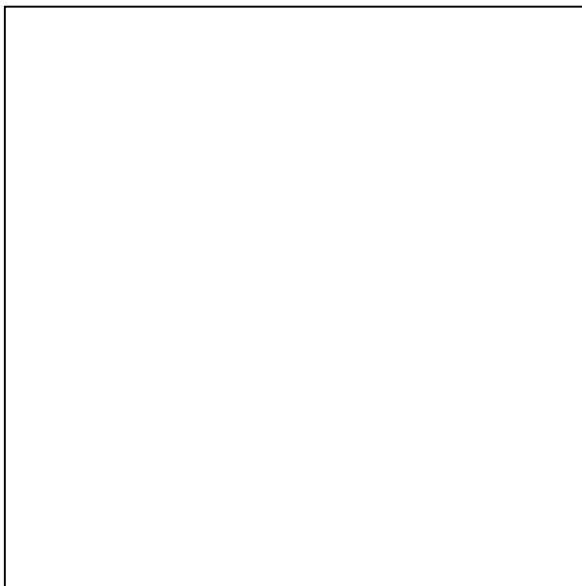
Voltage(V): 219.70 V
Current(A): 0.1320 A
Power(W): 27.78 W
Power Factor: 0.9560
Lamp Luminous Flux: 2790.31

Photometric Results

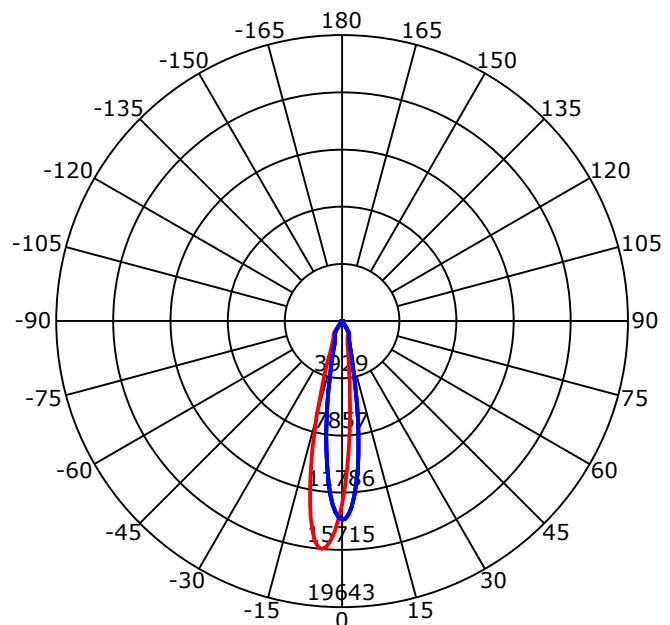
CIE Class: Direct
Luminaire Luminous Flux: 2790.305 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 100.44 lm/W
Beam Angle(50%) C0-180,C90-270: 19.0,18.1
Field Angle(10%) C0-180,C90-270: 38.2,41.8
S/MH C0-180,C90-270: 0.425,0.353

Max. Intensity: 15714.78 cd
Max.Intensity Angle: C=180 Gamma=5
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 12583.83 cd
Effective Luminous Flux: 1832.95 lm
ERP(ϕ use)(120deg): 2773.63 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 19.0 deg,18.1 deg

C0-180 — C90-270 —

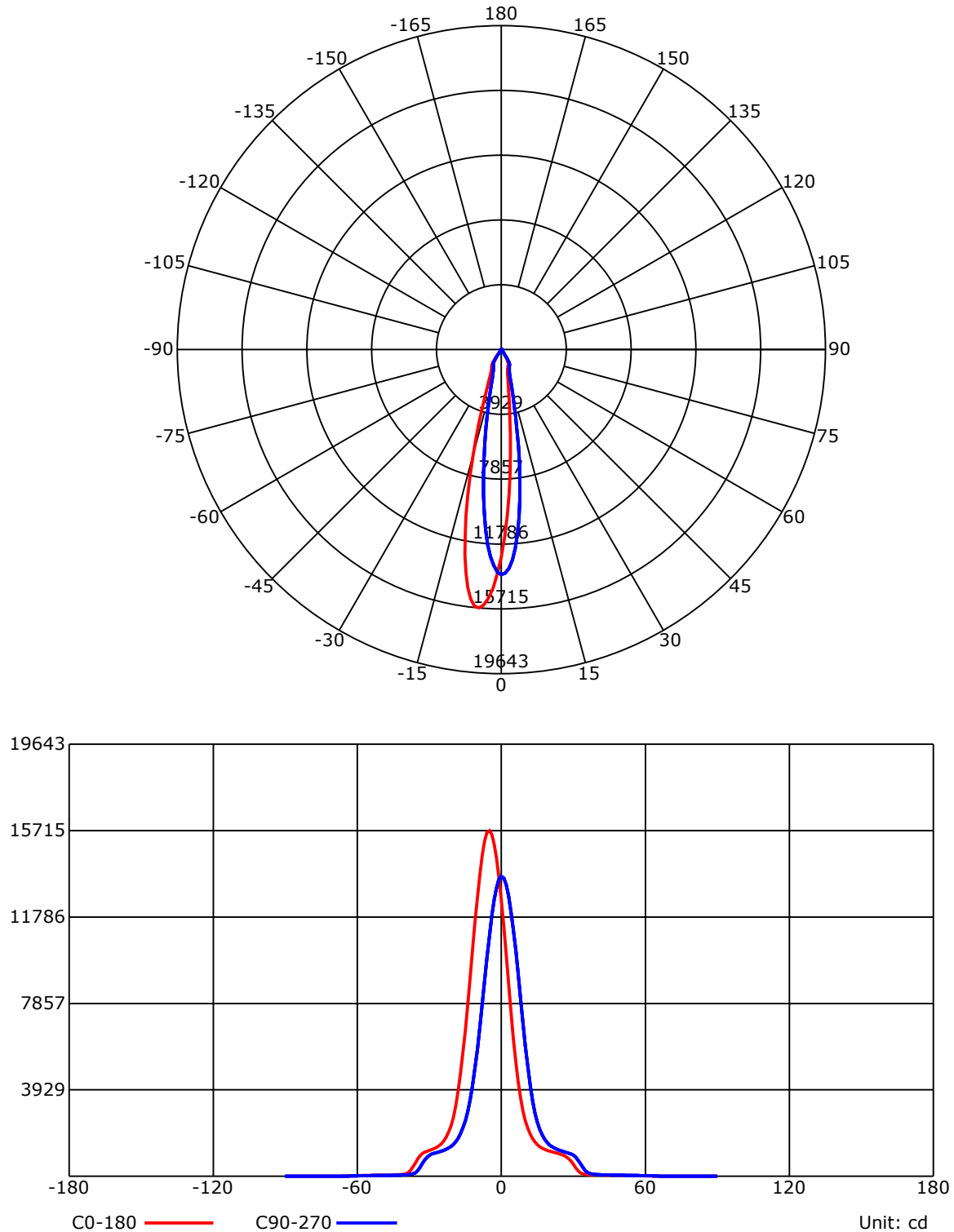
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/7/23 17:39:17

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks:

Report No.:

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Luminous Intensity Distribution Curve



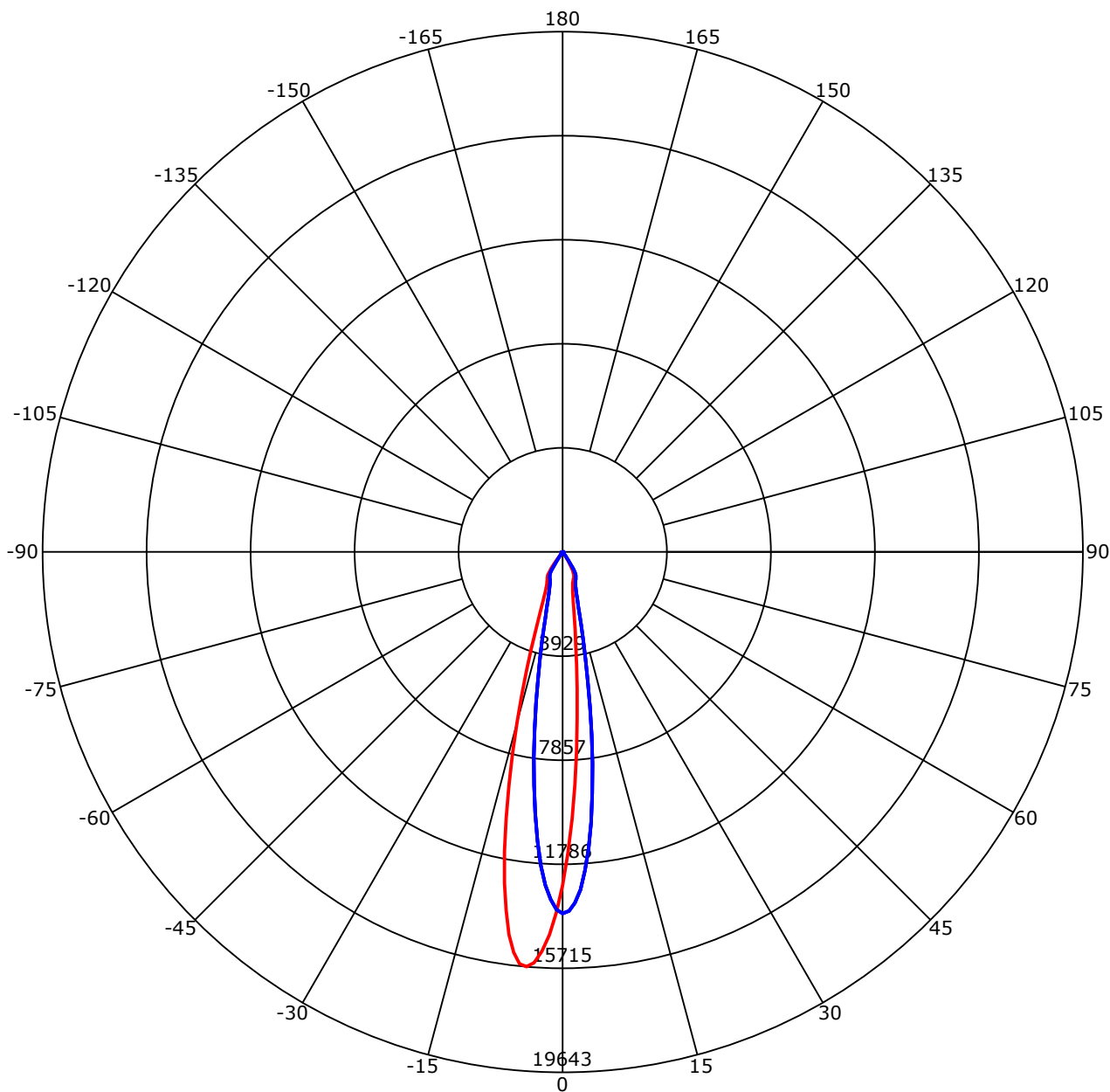
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/7/23 17:39:17

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 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: 2024/7/23 17:39:17

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks:

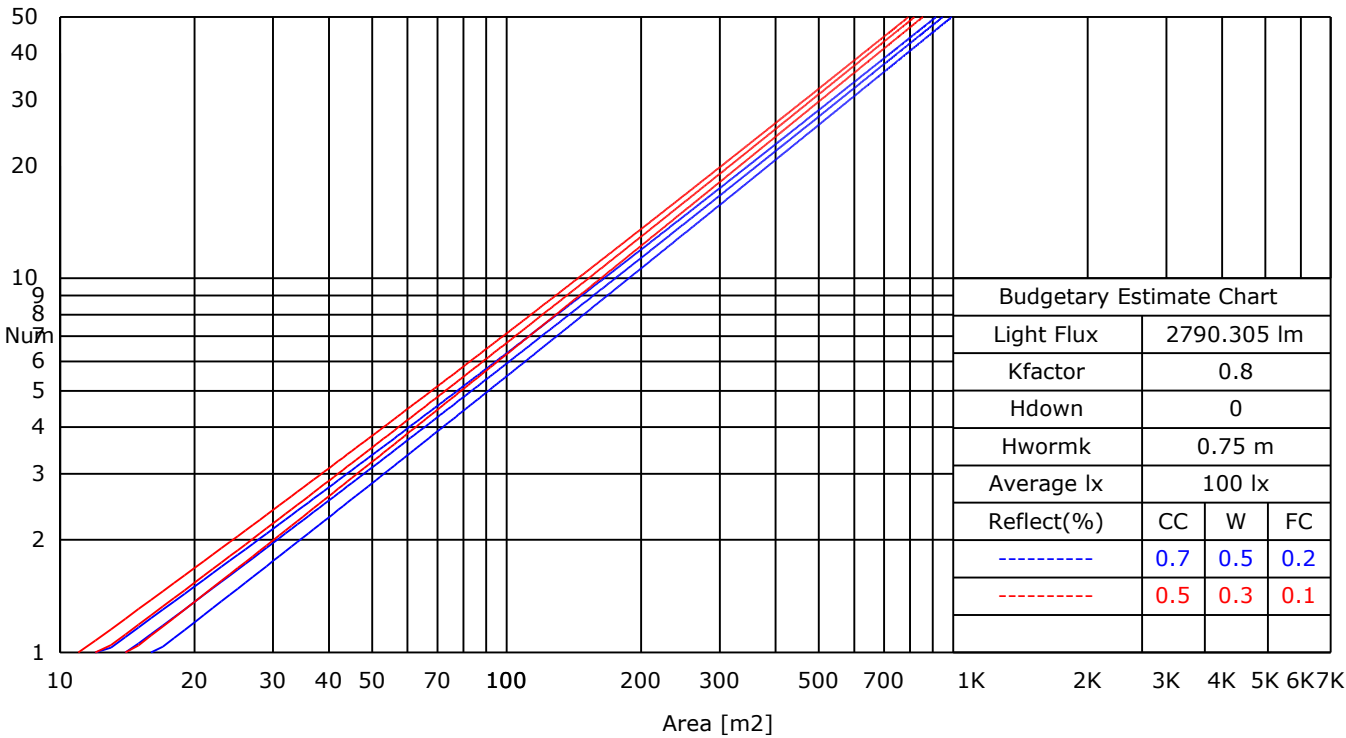
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UTILIZATION FACTORS TABLE

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	0.87	0.83	0.81	0.86	0.83	0.79	0.84	0.80	0.76	0.81	0.76	0.72	0.76	0.71	0.67	0.62
2	0.82	0.79	0.77	0.82	0.78	0.75	0.80	0.76	0.72	0.77	0.73	0.69	0.73	0.69	0.64	0.60
3	0.79	0.76	0.74	0.78	0.75	0.73	0.77	0.73	0.70	0.75	0.70	0.66	0.71	0.66	0.62	0.58
4	0.76	0.73	0.72	0.76	0.73	0.70	0.74	0.70	0.67	0.72	0.68	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	0.63	0.68	0.64	0.60	0.66	0.61	0.57	0.53
7	0.69	0.67	0.66	0.69	0.67	0.65	0.68	0.64	0.62	0.66	0.62	0.59	0.64	0.59	0.55	0.52
8	0.68	0.66	0.65	0.67	0.65	0.63	0.66	0.63	0.60	0.65	0.60	0.57	0.63	0.58	0.54	0.51
9	0.66	0.64	0.63	0.66	0.63	0.62	0.65	0.61	0.59	0.63	0.59	0.56	0.61	0.57	0.53	0.50
10	0.65	0.63	0.62	0.64	0.62	0.61	0.63	0.60	0.58	0.62	0.58	0.55	0.60	0.55	0.52	0.49

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



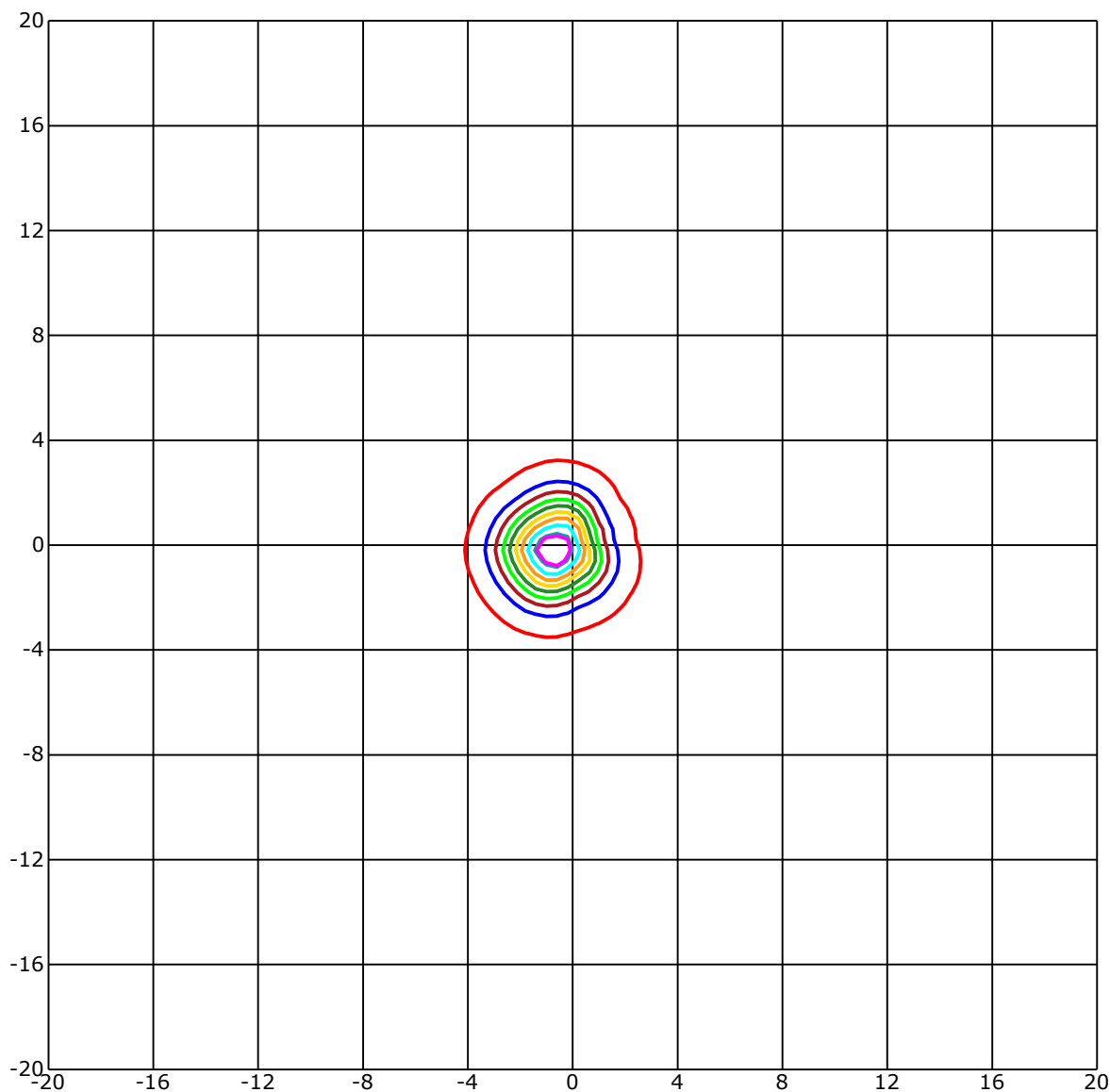
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Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/7/23 17:39:17

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks:

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ISOLX DIAGRAM

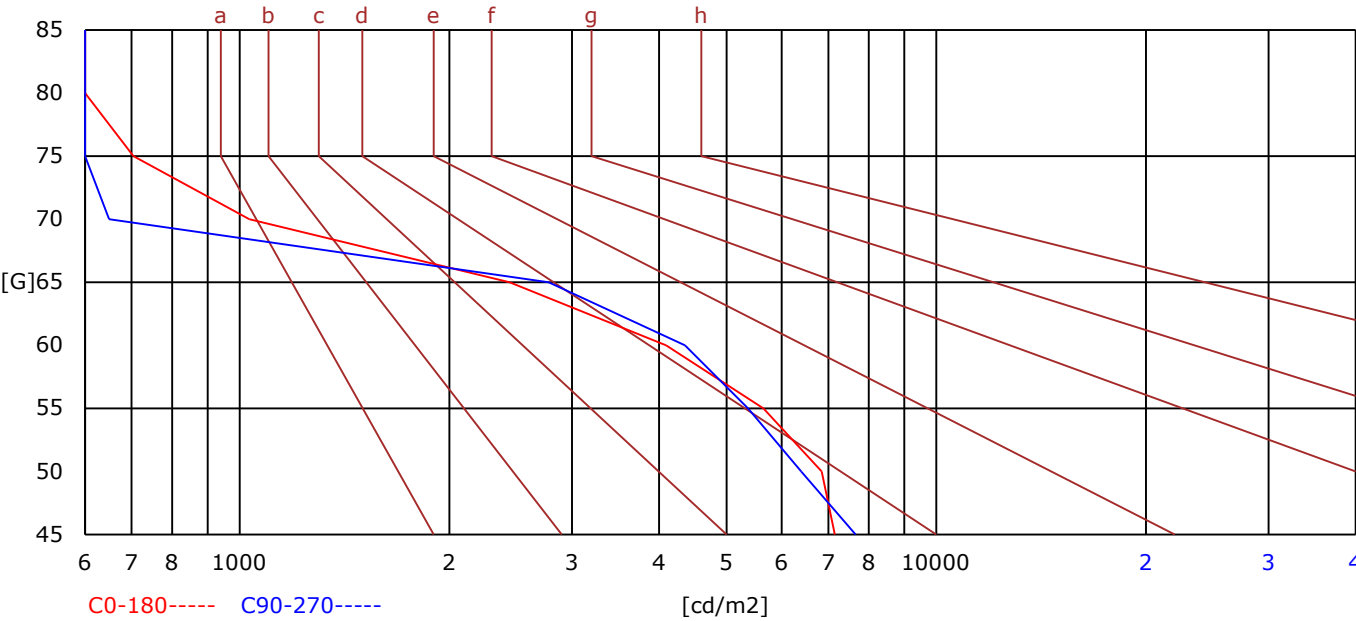


C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/7/23 17:39:17

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks:

BRIGHT LIMIT DIAGRAM

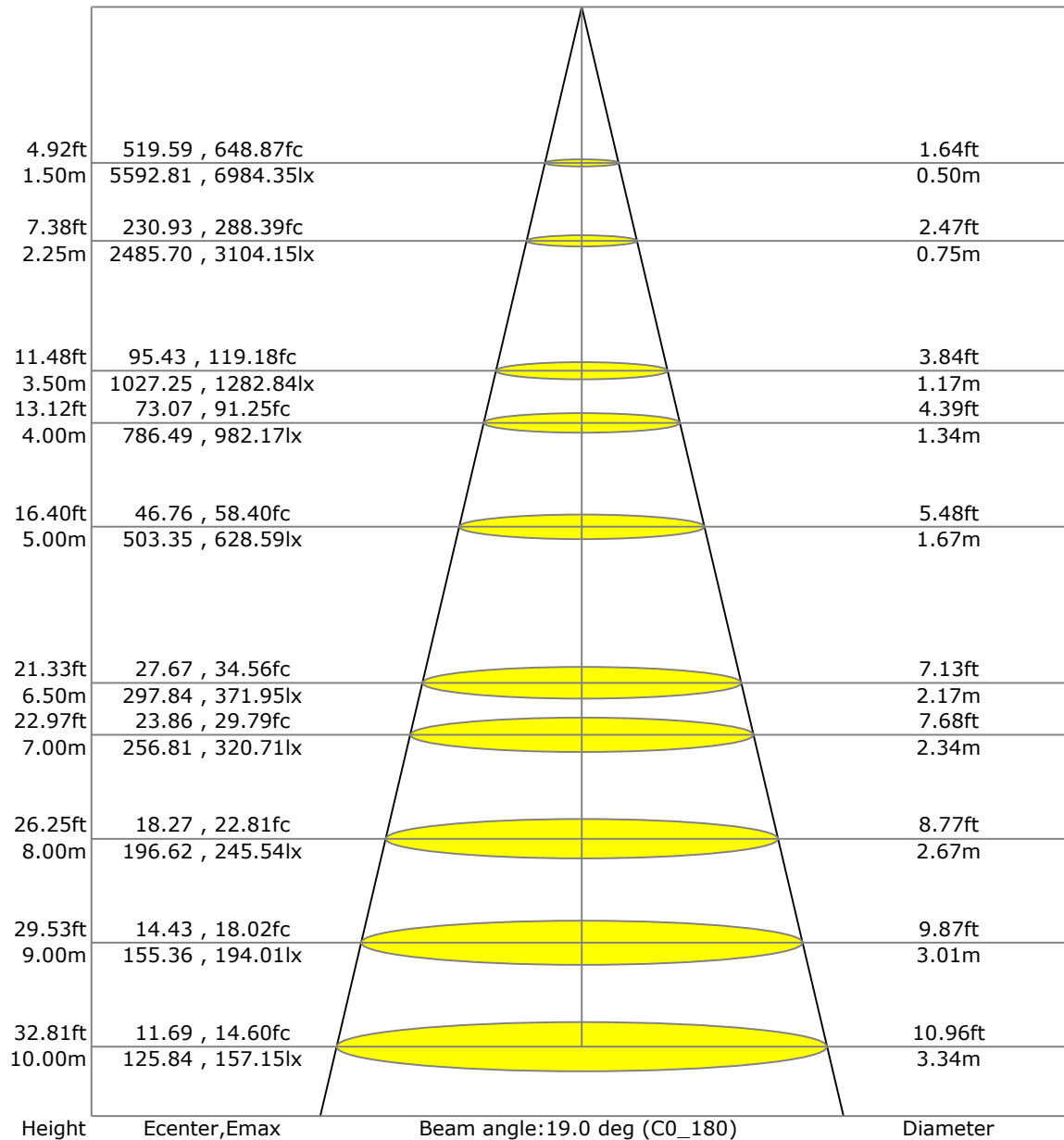
C/G	45	50	55	60	65	70	75	80	85
C0	7152	6847	5647	4095	2440	1033	704	0	0
C90	7657	6399	5367	4357	2776	650	0	0	0
Dazzle	Quality	Illuminance	---	---	---	---	---	---	---
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
---	---	a	b	c	d	e	f	g	h



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LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 25
 Operators: QC01
 Test Date: 2024/7/23 17:39:17

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 G Interval: 1.0 Deg
 Test System: Huipu CPM-1600B Goniophotometer
 Humidity: 60
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 Remarks:

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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	4.03	4.09	4.23	4.28	4.52	4.22	4.28	4.42	4.47	4.71
3H	4.02	4.08	4.23	4.28	4.52	4.20	4.27	4.41	4.46	4.71
4H	4.01	4.07	4.22	4.27	4.52	4.19	4.25	4.40	4.45	4.70
6H	3.99	4.05	4.21	4.25	4.51	4.17	4.24	4.39	4.44	4.69
8H	3.98	4.05	4.20	4.25	4.50	4.16	4.23	4.38	4.43	4.69
12H	3.97	4.04	4.19	4.24	4.50	4.15	4.22	4.38	4.43	4.68
4H 2H	4.16	4.23	4.37	4.42	4.67	4.40	4.47	4.62	4.67	4.91
3H	4.15	4.22	4.38	4.42	4.68	4.39	4.46	4.61	4.66	4.92
4H	4.13	4.20	4.36	4.41	4.67	4.37	4.44	4.60	4.65	4.91
6H	4.11	4.18	4.35	4.40	4.66	4.35	4.41	4.59	4.64	4.90
8H	4.10	4.16	4.34	4.39	4.66	4.34	4.40	4.58	4.63	4.90
12H	4.08	4.15	4.33	4.38	4.65	4.32	4.39	4.57	4.62	4.89
8H 4H	4.14	4.21	4.36	4.41	4.67	4.38	4.45	4.60	4.65	4.90
6H	4.08	4.14	4.33	4.38	4.65	4.31	4.37	4.57	4.61	4.89
8H	4.06	4.12	4.33	4.37	4.65	4.29	4.35	4.56	4.60	4.88
12H	4.04	4.10	4.32	4.36	4.64	4.28	4.33	4.55	4.59	4.87
12H 4H	4.09	4.16	4.34	4.39	4.66	4.33	4.39	4.58	4.62	4.89
6H	4.06	4.12	4.33	4.37	4.65	4.29	4.35	4.56	4.60	4.88

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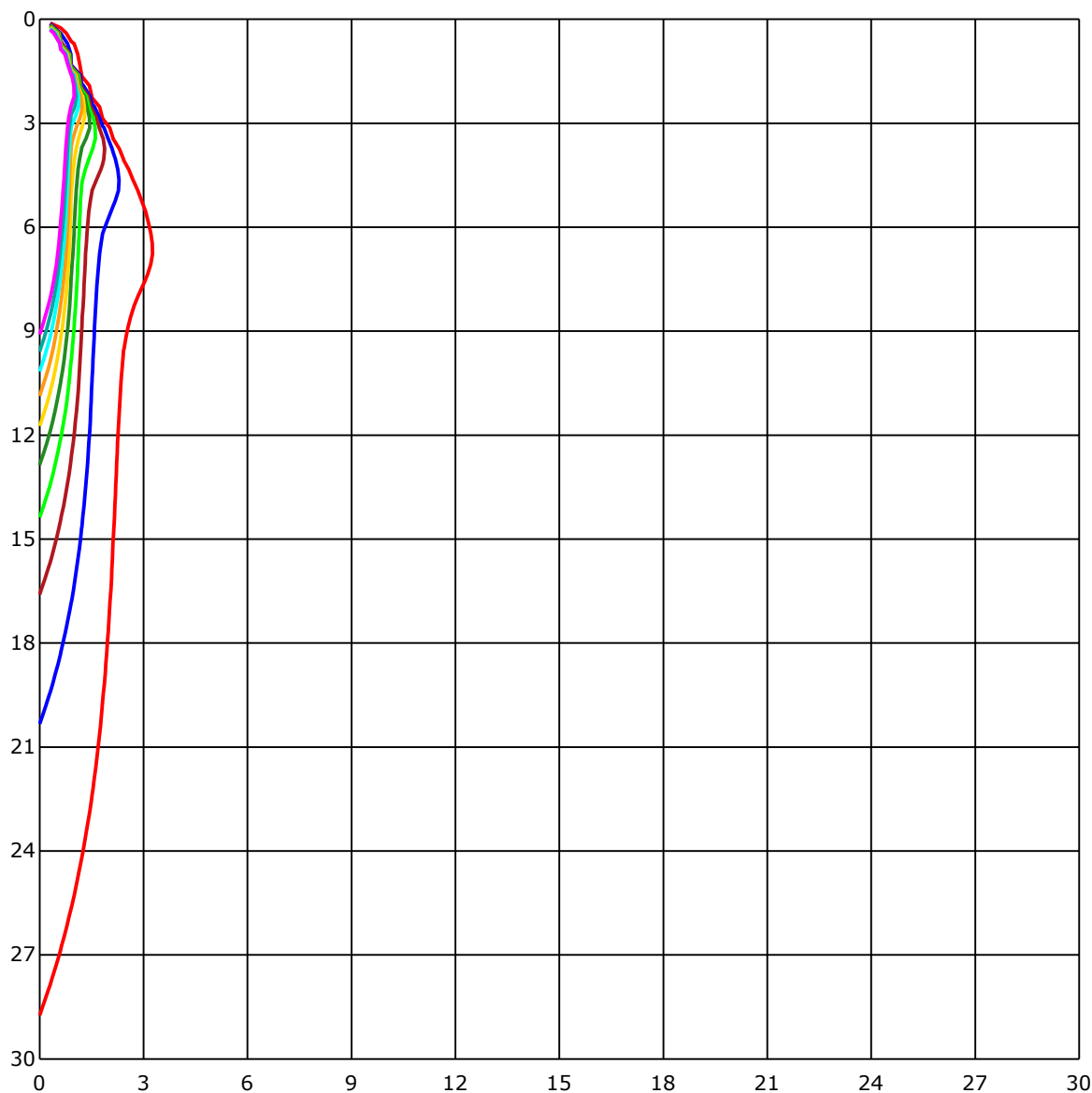
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks:

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks:

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SPACE ISOLX DIAGRAM



Unit of illumination:lx

152.318

137.086

121.854

106.622

91.391

76.159

60.927

45.695

30.464

15.232

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: 6.7 m

Remarks:

Report No.:

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	12583.83	13350.06	13642.12	13678.92	12583.83	13350.06	13642.12	13678.92	12583.83	
G1	11361.21	12429.77	13552.11	14025.88	13589.1	14157.86	13503.72	13060.3	11361.21	
G2	10082.34	11289.83	13252.65	14205.48	14459.61	14751.3	13116.95	12282.44	10082.34	
G3	8790.36	10109.77	12760.79	14102.82	15093.77	15068.67	12580.78	11329.25	8790.36	
G4	7517.32	8843.38	12050.09	13773.33	15537.64	15191.76	11853.07	10270.65	7517.32	
G5	6290.48	7574.92	11240.5	13224.32	15714.78	15010.27	10934.22	9123.22	6290.48	
G6	5176.09	6394.31	10259.12	12504.24	15631.59	14563.35	9905.2	7976.01	5176.09	
G7	4279.32	5329.25	9180.32	11588.67	15228.48	13905.93	8865.06	6831.94	4279.32	
G8	3562.92	4356.26	8066.02	10567.82	14578.52	13058.9	7812.43	5802.71	3562.92	
G9	2974.64	3593.18	6988.21	9463.35	13689.65	12114.06	6767.08	4890.41	2974.64	
G10	2521.16	3000.0	5934.73	8358.02	12685.69	10982.02	5775.95	4082.7	2521.16	
G11	2180.08	2537.41	4973.32	7189.76	11517.16	9812.19	4901.27	3431.21	2180.08	
G12	1916.49	2173.13	4134.37	6125.78	10289.64	8656.0	4121.53	2914.62	1916.49	
G13	1708.42	1911.55	3433.14	5171.64	9040.58	7491.47	3477.13	2499.57	1708.42	
G14	1555.12	1708.11	2882.21	4288.48	7826.71	6395.52	2952.19	2181.83	1555.12	
G15	1436.21	1550.1	2459.43	3550.08	6663.2	5402.06	2527.49	1924.3	1436.21	
G16	1346.88	1435.18	2135.1	2965.79	5606.94	4492.95	2199.07	1734.42	1346.88	
G17	1278.47	1350.52	1883.67	2498.17	4677.04	3731.39	1936.11	1576.22	1278.47	
G18	1226.08	1283.99	1689.21	2146.6	3883.34	3107.51	1723.24	1463.5	1226.08	
G19	1177.51	1225.36	1544.67	1874.47	3204.97	2627.19	1571.69	1373.28	1177.51	
G20	1146.22	1178.41	1432.13	1674.49	2678.99	2260.89	1452.15	1302.03	1146.22	
G21	1114.66	1144.29	1352.54	1521.68	2290.96	1974.17	1359.9	1246.55	1114.66	
G22	1083.96	1108.33	1283.14	1406.58	1996.62	1755.11	1291.22	1205.52	1083.96	
G23	1054.96	1078.26	1236.68	1323.13	1771.9	1597.41	1231.24	1170.01	1054.96	
G24	1022.01	1044.86	1190.3	1260.78	1606.79	1469.47	1184.02	1138.23	1022.01	
G25	986.86	1009.67	1152.01	1211.49	1481.42	1375.21	1148.15	1107.08	986.86	
G26	948.3	971.33	1117.81	1169.47	1390.33	1298.13	1110.22	1075.03	948.3	
G27	881.95	930.57	1085.17	1134.6	1314.83	1250.73	1076.78	1045.76	881.95	
G28	795.59	867.23	1050.29	1098.55	1261.41	1198.02	1042.57	1008.36	795.59	
G29	689.51	777.45	1013.66	1066.09	1213.92	1164.81	1010.07	965.81	689.51	
G30	544.38	674.52	963.16	1038.26	1174.82	1128.4	954.27	901.03	544.38	
G31	378.02	563.28	869.61	998.44	1133.47	1096.03	861.53	809.68	378.02	
G32	242.9	453.12	720.39	954.14	1092.4	1062.5	723.27	705.76	242.9	
G33	146.97	348.8	556.14	897.67	1030.41	1035.16	557.49	589.23	146.97	
G34	104.73	256.86	389.24	814.04	922.44	989.6	385.29	475.97	104.73	
G35	84.12	184.41	253.0	716.98	760.35	943.09	246.45	365.45	84.12	
G36	74.11	138.08	165.91	602.6	576.7	865.17	151.01	274.46	74.11	

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G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks:

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	67.92	110.12	121.83	489.08	391.13	771.12	105.09	202.36	67.92	
G38	64.46	92.65	96.47	375.64	245.55	660.2	81.07	157.92	64.46	
G39	62.62	82.51	82.6	281.19	154.06	549.23	68.01	131.35	62.62	
G40	60.69	73.62	75.01	202.41	112.27	429.06	60.87	111.46	60.69	
G41	57.06	69.76	69.22	147.78	90.99	326.08	56.92	98.49	57.06	
G42	54.72	65.72	64.96	112.85	79.41	238.14	54.54	89.65	54.72	
G43	52.75	64.73	62.04	91.08	71.51	172.69	51.49	83.63	52.75	
G44	51.53	63.97	57.91	78.24	65.85	132.02	48.8	79.81	51.53	
G45	49.56	62.31	56.83	66.71	62.17	108.36	47.04	76.18	49.56	
G46	48.53	61.54	53.06	62.04	58.36	91.62	44.35	74.65	48.53	
G47	47.45	60.6	52.61	57.23	54.41	82.28	43.95	72.45	47.45	
G48	47.09	58.99	49.65	54.36	53.6	75.15	42.96	70.75	47.09	
G49	44.35	56.7	49.33	53.37	49.92	69.0	40.85	68.82	44.35	
G50	43.99	54.23	46.64	50.68	48.08	68.59	39.68	66.84	43.99	
G51	41.3	53.51	46.87	48.3	46.19	62.98	38.02	63.88	41.3	
G52	42.42	50.5	43.45	45.52	45.43	59.57	36.14	62.17	42.42	
G53	37.39	47.27	42.33	42.2	43.23	56.25	35.24	58.0	37.39	
G54	35.06	43.68	40.58	40.72	41.7	52.43	33.4	56.2	35.06	
G55	31.69	39.91	39.23	37.93	39.14	50.05	31.69	51.98	31.69	
G56	30.79	37.35	36.14	35.91	37.89	47.4	28.55	48.97	30.79	
G57	27.52	33.58	34.97	33.94	35.46	44.67	26.84	45.29	27.52	
G58	24.69	32.68	32.37	31.51	34.03	42.33	24.51	41.25	24.69	
G59	21.82	28.77	29.94	29.4	32.68	39.32	22.49	37.12	21.82	
G60	18.05	25.23	26.98	26.84	29.9	36.05	19.75	34.39	18.05	
G61	13.69	24.64	24.11	24.33	27.11	33.26	17.6	31.15	13.69	
G62	11.18	21.19	21.68	21.77	25.63	30.97	14.68	28.59	11.18	
G63	10.82	17.82	17.78	18.9	22.58	28.01	11.27	26.44	10.82	
G64	8.98	15.62	14.36	16.97	19.62	25.9	7.81	24.24	8.98	
G65	7.14	12.7	11.27	14.45	16.3	23.93	4.98	20.87	7.14	
G66	6.55	11.18	8.98	12.39	13.24	20.6	3.77	18.23	6.55	
G67	5.07	8.13	7.5	9.79	8.44	18.23	1.98	14.59	5.07	
G68	4.49	7.14	6.96	6.42	7.63	14.86	1.53	12.43	4.49	
G69	3.86	5.52	5.66	3.55	5.21	12.25	0.81	10.59	3.86	
G70	3.82	4.35	4.35	2.74	4.62	8.62	0.0	9.29	3.82	
G71	3.5	4.04	3.91	0.94	3.86	7.79	0.0	8.08	3.5	
G72	3.19	3.66	2.24	0.81	3.1	6.96	0.0	6.91	3.19	
G73	2.96	3.28	2.15	0.0	1.86	4.0	0.0	5.66	2.96	

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: 6.7 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
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G Range: 0 - 90 Deg
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