

Report No.:

Test Time: 2025/4/17 16:44:28

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP138CT095H146-38°-25W
Lamp Type:
Luminous Width: 90 mm
Luminous Length: 90 mm
Luminous Height: 95 mm

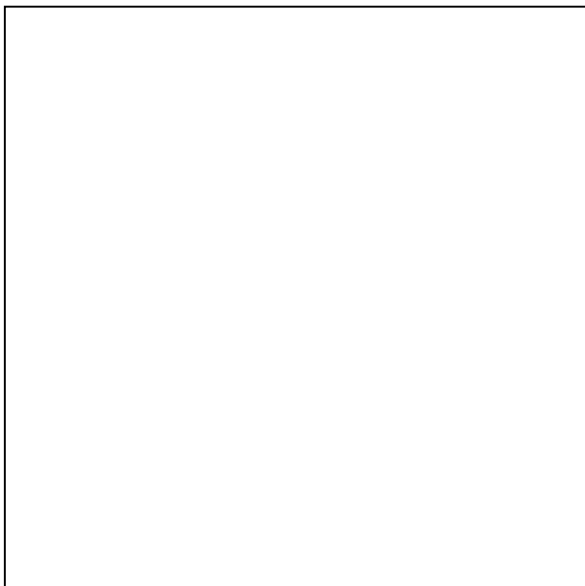
Voltage(V): 219.80 V
Current(A): 0.1140 A
Power(W): 24.46 W
Power Factor: 0.9690
Lamp Luminous Flux: 1953.90

Photometric Results

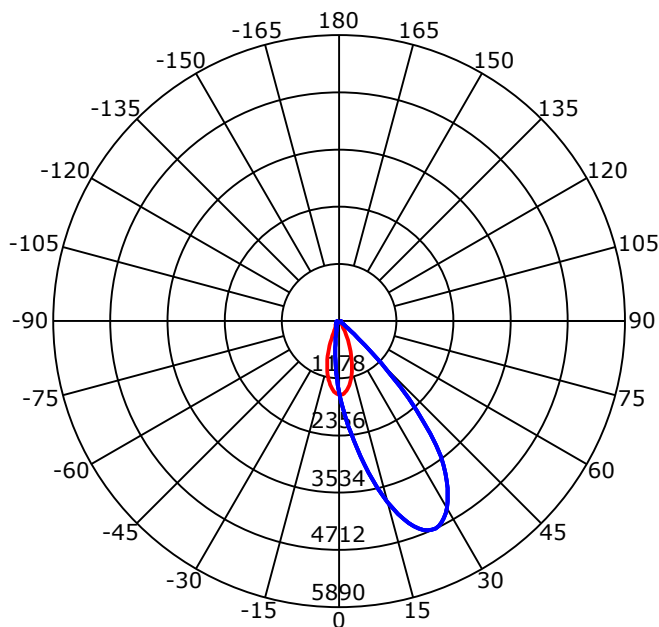
CIE Class: Direct
Luminaire Luminous Flux: 1953.903 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 79.87 lm/W
Beam Angle(50%) C0-180,C90-270: 37.4,35.0
Field Angle(10%) C0-180,C90-270: 63.7,57.6
S/MH C0-180,C90-270: 0.611,1.620

Max. Intensity: 4712.09 cd
Max.Intensity Angle: C=90 Gamma=25
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 1517.90 cd
Effective Luminous Flux: 1628.68 lm
ERP(ϕ use)(120deg): 1892.95 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 37.4 deg,35.0 deg

C0-180 — C90-270 —

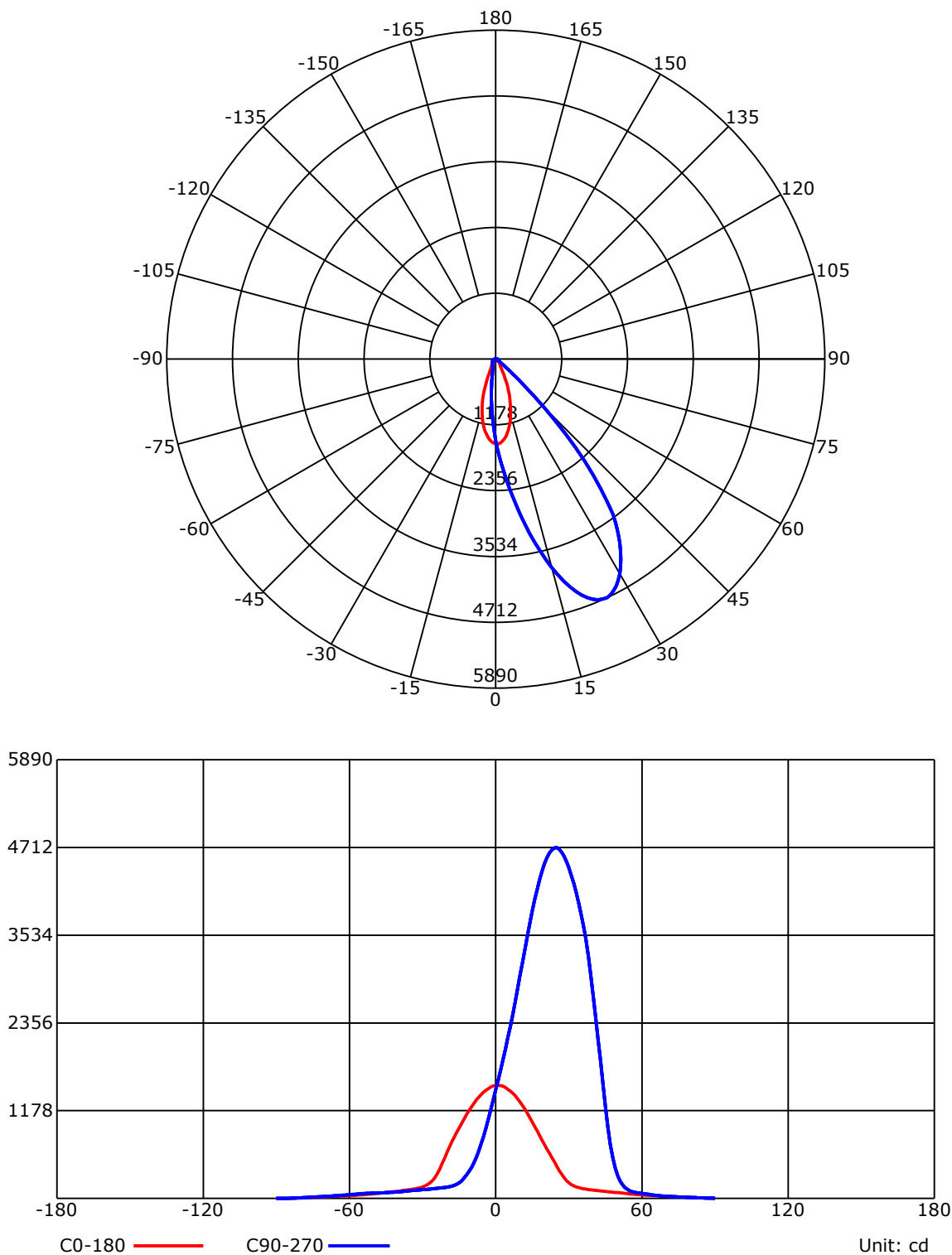
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/4/17 16:44:28

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.:

Test Time: 2025/4/17 16:44:28

Luminous Intensity Distribution Curve



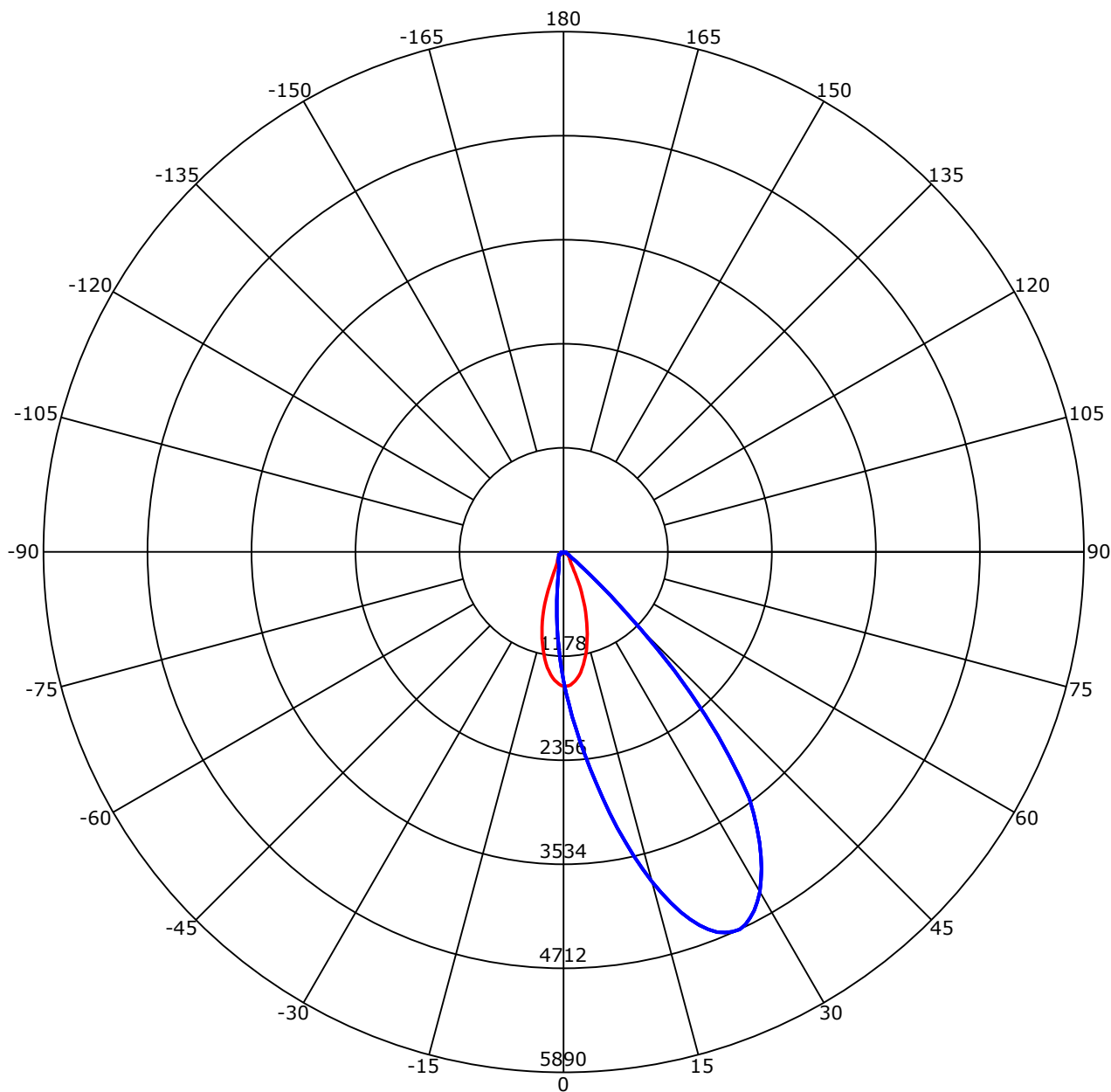
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Test Speed: High
Temperature: 25
Operators: QC01
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

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Luminous 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: 2025/4/17 16:44:28

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

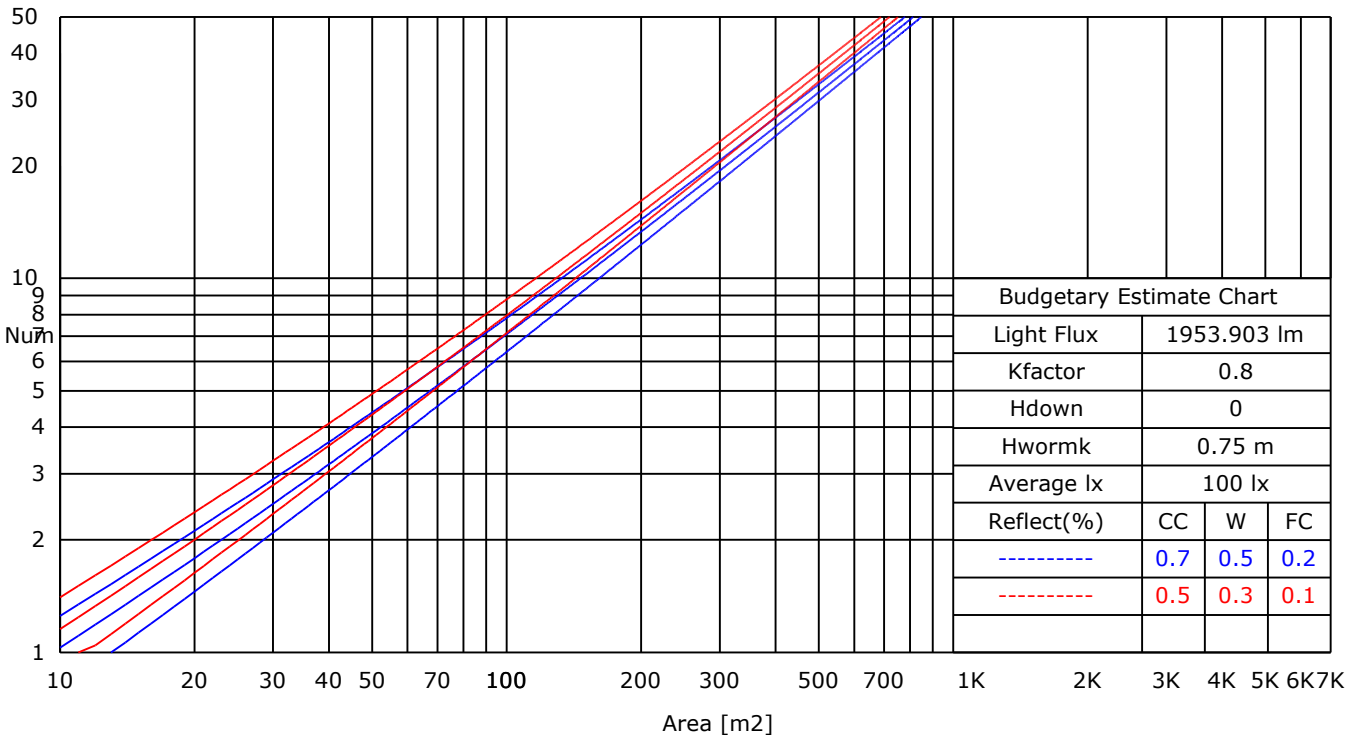
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UTILIZATION FACTORS TABLE

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	1.08	1.07	1.05	1.07	1.05	1.04	1.03	1.01	0.99	0.98	0.96	0.94	0.91	0.89	0.87	0.82
2	1.02	1.00	0.99	1.01	0.99	0.97	0.97	0.95	0.93	0.93	0.90	0.88	0.87	0.85	0.82	0.77
3	0.96	0.95	0.93	0.95	0.93	0.91	0.92	0.90	0.87	0.88	0.85	0.83	0.84	0.80	0.78	0.73
4	0.91	0.90	0.88	0.90	0.88	0.87	0.88	0.85	0.83	0.84	0.81	0.78	0.80	0.77	0.73	0.69
5	0.87	0.85	0.84	0.86	0.84	0.82	0.83	0.80	0.78	0.81	0.77	0.74	0.77	0.73	0.70	0.66
6	0.82	0.81	0.80	0.82	0.80	0.78	0.80	0.77	0.74	0.77	0.73	0.71	0.74	0.70	0.66	0.63
7	0.79	0.77	0.76	0.78	0.76	0.74	0.76	0.73	0.71	0.74	0.70	0.67	0.71	0.67	0.63	0.60
8	0.75	0.74	0.73	0.75	0.73	0.71	0.73	0.70	0.68	0.71	0.67	0.64	0.68	0.64	0.61	0.57
9	0.72	0.71	0.70	0.72	0.69	0.68	0.70	0.67	0.65	0.68	0.64	0.62	0.66	0.61	0.58	0.55
10	0.69	0.68	0.67	0.69	0.67	0.65	0.67	0.64	0.62	0.66	0.62	0.59	0.64	0.59	0.56	0.53

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



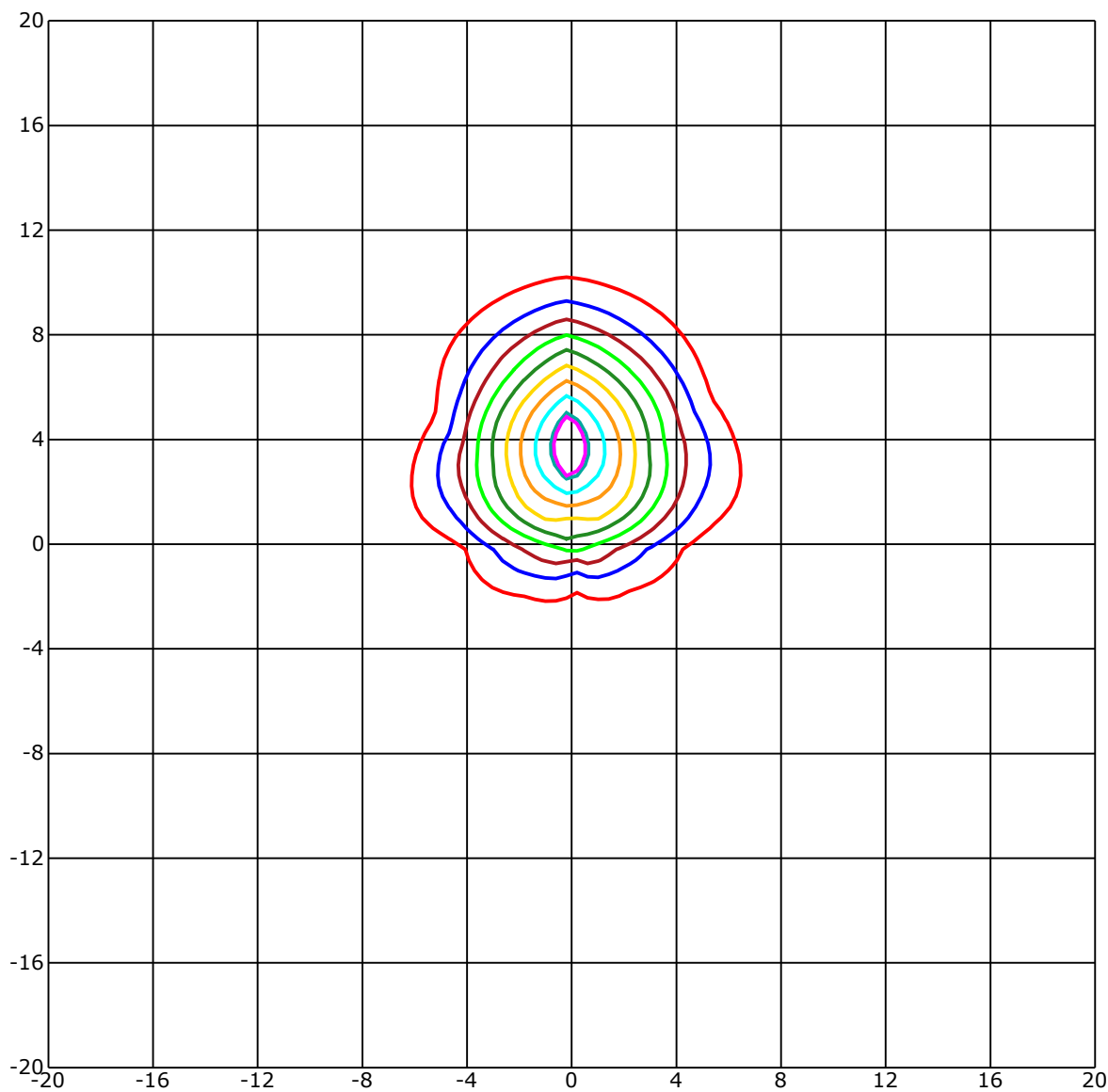
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
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ISOLX DIAGRAM



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

34.319(92%Emax)	18.651(50%Emax)
33.572(90%Emax)	14.921(40%Emax)
29.842(80%Emax)	11.191(30%Emax)
26.112(70%Emax)	7.461(20%Emax)
22.382(60%Emax)	3.73(10%Emax)

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/4/17 16:44:28

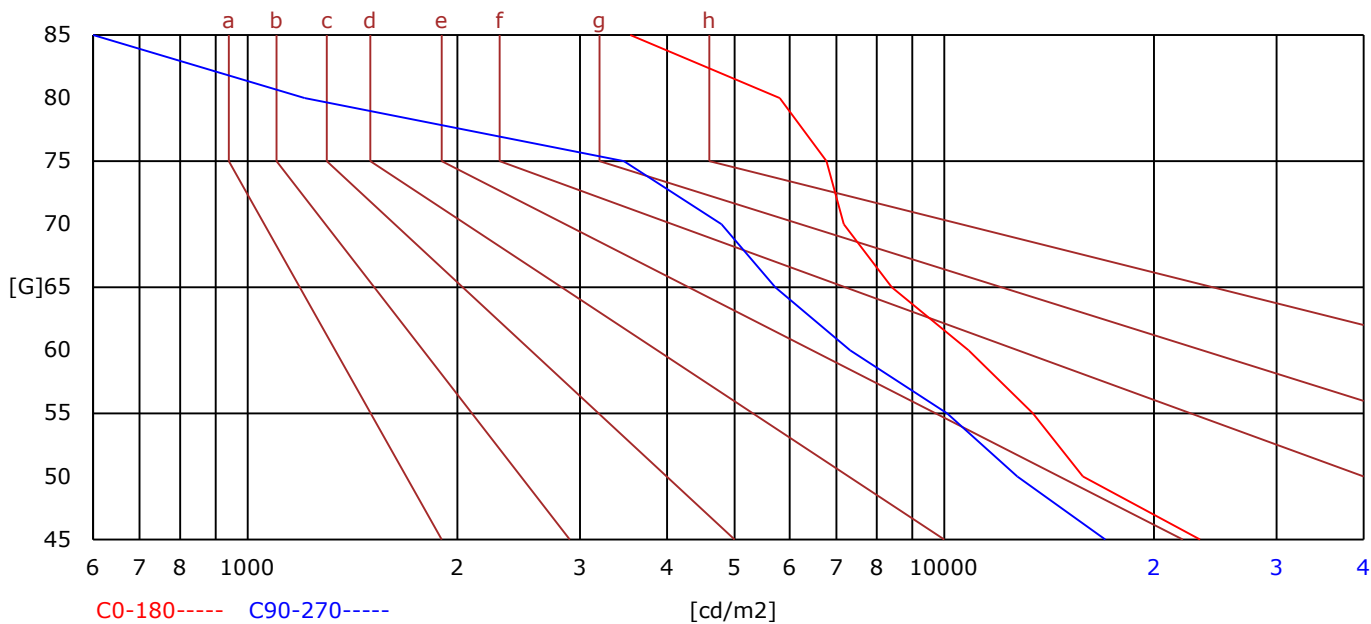
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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Test Distance: 6.87 m
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	23295	15809	13409	10838	8410	7172	6776	5805	3543
C90	17033	12727	10098	7330	5722	4787	3467	1208	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



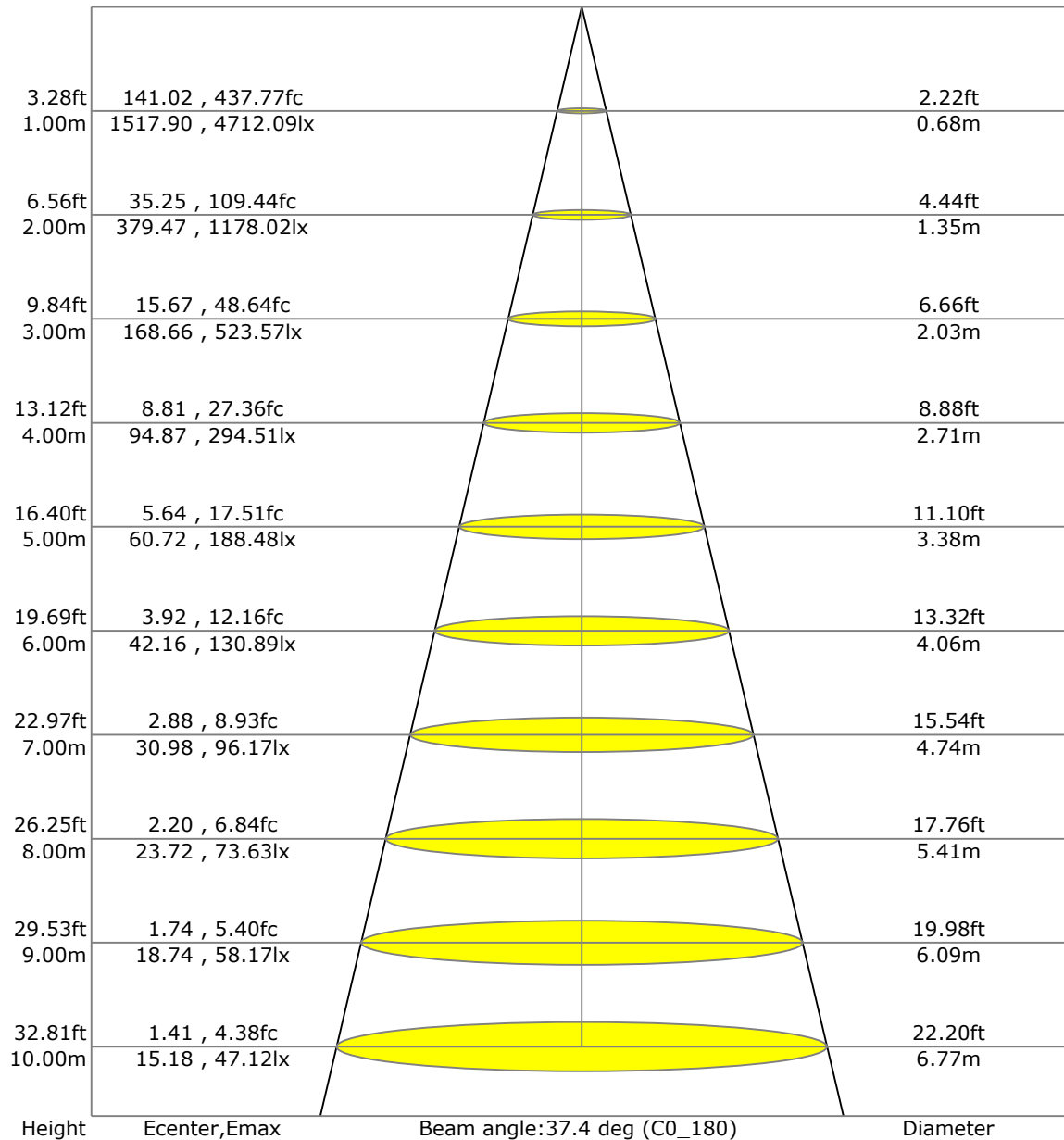
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Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/4/17 16:44:28

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: 2025/4/17 16:44:28

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

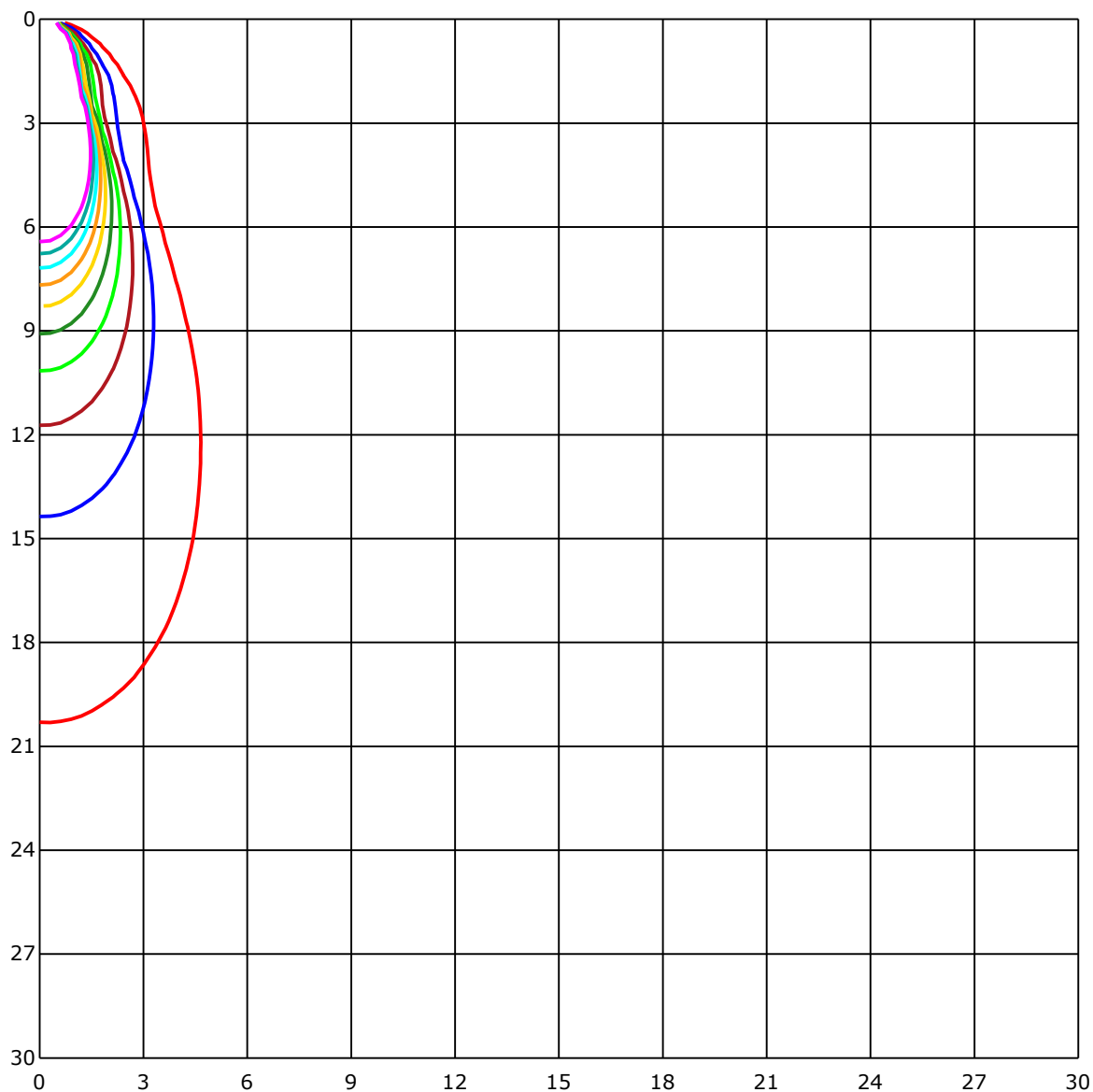
RHOCC	70	70	50	50	30	70	70	50	50	30
RHOW	50	30	50	30	30	50	30	50	30	30
RHOF	20	20	20	20	20	20	20	20	20	20
Room Size X Y	Viewed Endwise					Viewed Crosswise				
2H 2H	18.50	18.56	18.70	18.74	18.99	19.10	19.16	19.30	19.35	19.59
3H	18.48	18.53	18.69	18.73	18.97	19.08	19.13	19.28	19.32	19.57
4H	18.46	18.52	18.67	18.71	18.96	19.06	19.11	19.27	19.31	19.56
6H	18.44	18.50	18.66	18.70	18.95	19.04	19.09	19.26	19.30	19.55
8H	18.43	18.48	18.65	18.69	18.94	19.03	19.08	19.25	19.29	19.54
12H	18.42	18.47	18.64	18.68	18.93	19.02	19.07	19.24	19.28	19.53
4H 2H	18.61	18.67	18.83	18.86	19.11	19.19	19.25	19.41	19.44	19.69
3H	18.60	18.65	18.82	18.86	19.11	19.18	19.23	19.40	19.43	19.69
4H	18.59	18.64	18.81	18.85	19.11	19.16	19.21	19.39	19.42	19.68
6H	18.56	18.61	18.80	18.83	19.10	19.14	19.18	19.37	19.41	19.67
8H	18.55	18.60	18.79	18.82	19.09	19.12	19.17	19.36	19.40	19.66
12H	18.53	18.58	18.78	18.81	19.08	19.11	19.15	19.36	19.38	19.65
8H 4H	18.65	18.70	18.87	18.90	19.16	19.22	19.27	19.43	19.47	19.72
6H	18.62	18.66	18.87	18.90	19.17	19.17	19.21	19.42	19.45	19.72
8H	18.60	18.64	18.86	18.89	19.16	19.16	19.20	19.42	19.44	19.72
12H	18.58	18.62	18.85	18.88	19.16	19.14	19.18	19.41	19.43	19.71
12H 4H	18.64	18.69	18.89	18.92	19.19	19.20	19.25	19.45	19.48	19.75
6H	18.62	18.66	18.88	18.91	19.18	19.18	19.22	19.44	19.47	19.74

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SPACE ISOLX DIAGRAM



36.815
33.133
29.452
25.77
22.089

18.407
14.726
11.044
7.363
3.681

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Humidity: 60
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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	1517.9	1660.15	1458.86	1720.8	1517.9	1660.15	1458.86	1720.8	1517.9	
G1	1519.46	1746.14	1594.41	1802.83	1510.58	1567.83	1327.27	1638.63	1519.46	
G2	1514.45	1831.57	1728.73	1882.92	1496.33	1471.17	1198.61	1546.45	1514.45	
G3	1506.01	1918.18	1867.68	1956.78	1476.65	1372.72	1073.82	1455.51	1506.01	
G4	1488.31	2004.12	2007.19	2032.44	1454.89	1274.65	952.48	1361.49	1488.31	
G5	1466.12	2082.75	2161.15	2105.6	1427.57	1178.7	837.13	1266.15	1466.12	
G6	1440.97	2165.16	2313.92	2172.95	1394.67	1081.56	730.04	1169.96	1440.97	
G7	1411.05	2238.6	2477.18	2236.24	1358.42	982.88	633.43	1074.01	1411.05	
G8	1378.1	2306.51	2643.17	2289.85	1320.43	890.65	550.03	979.24	1378.1	
G9	1335.96	2366.88	2820.39	2344.08	1275.36	799.09	476.92	888.62	1335.96	
G10	1292.77	2420.64	2999.79	2384.91	1229.9	715.74	413.92	801.12	1292.77	
G11	1244.49	2468.87	3180.51	2423.84	1177.28	636.45	359.69	720.65	1244.49	
G12	1197.01	2512.24	3354.66	2454.14	1124.56	563.63	312.96	642.92	1197.01	
G13	1140.89	2542.92	3529.01	2483.6	1067.22	497.46	273.41	573.35	1140.89	
G14	1084.49	2570.39	3698.07	2493.32	1010.44	438.98	236.88	509.02	1084.49	
G15	1025.02	2581.91	3860.99	2502.33	948.19	387.06	210.22	454.79	1025.02	
G16	966.64	2588.14	4011.55	2498.18	887.49	337.27	189.54	403.82	966.64	
G17	905.85	2580.77	4153.85	2483.78	823.3	292.01	175.43	361.58	905.85	
G18	842.75	2561.42	4283.73	2465.14	761.29	254.72	164.62	320.33	842.75	
G19	781.34	2536.88	4396.96	2437.15	693.04	225.41	157.45	283.09	781.34	
G20	722.96	2504.32	4495.55	2396.99	620.45	202.66	151.36	250.19	722.96	
G21	664.3	2464.58	4574.89	2353.85	542.25	186.57	146.59	224.89	664.3	
G22	607.14	2416.76	4640.87	2297.83	465.93	175.48	142.25	205.78	607.14	
G23	550.55	2362.96	4680.04	2242.94	393.15	166.04	138.62	190.91	550.55	
G24	494.81	2297.78	4704.78	2176.91	331.7	159.05	135.03	179.87	494.81	
G25	435.63	2227.79	4712.09	2104.37	280.44	152.97	131.82	171.23	435.63	
G26	378.09	2157.32	4691.51	2029.42	239.95	148.1	128.61	164.72	378.09	
G27	324.71	2076.48	4649.79	1948.43	208.75	143.24	125.59	158.58	324.71	
G28	279.08	1998.18	4594.57	1851.2	185.2	139.18	122.76	153.39	279.08	
G29	241.13	1912.28	4524.86	1735.86	167.97	135.22	120.12	149.24	241.13	
G30	209.93	1824.63	4441.18	1596.2	155.23	131.54	117.43	144.56	209.93	
G31	186.38	1728.54	4338.91	1445.59	144.99	127.76	114.55	140.79	186.38	
G32	168.35	1618.76	4226.53	1281.54	137.06	124.46	111.86	137.11	168.35	
G33	155.33	1490.24	4103.44	1112.34	130.22	121.34	109.12	133.71	155.33	
G34	145.27	1344.92	3966.85	928.08	124.46	117.8	106.19	130.5	145.27	
G35	137.39	1186.81	3818.28	754.25	119.31	114.55	103.41	127.57	137.39	
G36	130.78	1010.58	3660.92	596.14	114.5	111.57	100.48	124.36	130.78	

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G Range: 0 - 90 Deg

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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	124.93	834.58	3487.57	462.06	110.44	108.32	97.74	121.53	124.93	
G38	120.21	668.73	3246.72	357.94	106.19	105.2	94.39	118.32	120.21	
G39	115.68	519.59	2985.96	280.59	102.32	101.85	90.62	115.3	115.68	
G40	111.43	396.12	2714.01	221.54	98.64	98.92	87.41	112.23	111.43	
G41	107.61	301.02	2434.84	179.25	94.77	95.95	85.62	109.26	107.61	
G42	103.88	234.33	2137.5	149.33	91.37	92.74	83.54	105.91	103.88	
G43	100.53	187.61	1833.88	127.15	87.6	88.68	81.7	103.08	100.53	
G44	97.08	155.84	1524.08	110.39	84.15	84.77	79.86	99.87	97.08	
G45	93.83	133.43	1230.66	97.56	80.71	82.17	78.25	95.53	93.83	
G46	90.62	117.71	958.71	87.69	77.31	79.57	76.69	91.56	90.62	
G47	87.64	105.15	727.3	80.42	73.72	77.17	75.42	88.97	87.64	
G48	84.39	95.48	543.43	74.81	70.23	74.9	73.96	86.32	84.39	
G49	80.99	87.93	407.97	70.42	66.93	72.64	72.82	84.2	80.99	
G50	77.78	82.31	308.24	66.26	63.1	70.51	71.6	82.08	77.78	
G51	74.43	77.78	237.21	62.25	59.23	68.48	70.42	80.38	74.43	
G52	71.13	73.72	185.15	58.52	56.16	66.69	69.1	77.92	71.13	
G53	67.73	69.66	147.3	54.75	53.33	65.08	67.82	76.08	67.73	
G54	63.86	66.17	120.26	50.93	50.78	62.96	65.93	74.19	63.86	
G55	59.61	62.3	101.95	46.91	48.05	61.4	63.81	72.4	59.61	
G56	56.73	58.67	90.95	43.28	45.55	59.61	61.54	70.75	56.73	
G57	54.18	55.13	83.16	39.98	43.33	57.86	58.85	69.1	54.18	
G58	51.96	51.73	77.03	36.25	41.34	56.16	55.98	67.49	51.96	
G59	49.23	47.43	72.16	32.57	39.32	54.23	53.38	66.08	49.23	
G60	47.29	43.89	67.02	29.69	37.62	52.48	50.83	64.47	47.29	
G61	45.07	40.21	62.44	27.37	35.82	50.12	47.81	62.54	45.07	
G62	43.23	36.44	57.58	25.2	34.5	47.95	45.31	60.32	43.23	
G63	41.3	33.56	53.29	23.17	32.85	45.45	43.04	58.48	41.3	
G64	39.46	31.15	48.47	21.14	31.43	43.33	40.35	56.16	39.46	
G65	37.76	28.79	43.99	19.59	29.83	41.11	37.85	53.8	37.76	
G66	36.11	26.62	39.83	17.89	28.22	39.17	35.63	51.35	36.11	
G67	34.74	24.68	36.67	16.52	26.43	36.58	33.37	48.52	34.74	
G68	33.37	23.03	33.6	15.43	24.83	34.31	31.06	46.02	33.37	
G69	31.86	21.29	30.91	14.4	23.17	32.28	28.93	43.7	31.86	
G70	30.39	19.87	28.51	13.26	21.47	30.21	26.67	41.16	30.39	
G71	28.6	18.6	26.38	12.13	19.78	28.08	24.73	38.94	28.6	
G72	27.04	17.6	24.4	10.9	18.22	26.1	22.8	36.58	27.04	
G73	25.39	16.57	22.7	9.63	16.57	24.12	21.0	34.55	25.39	

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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