

Report No.:

Test Time: 2025/8/1 17:52:27

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP104SCT095H98-2F-EB-15°
Lamp Type:
Luminous Width: 90 mm
Luminous Length: 185 mm
Luminous Height: 70 mm

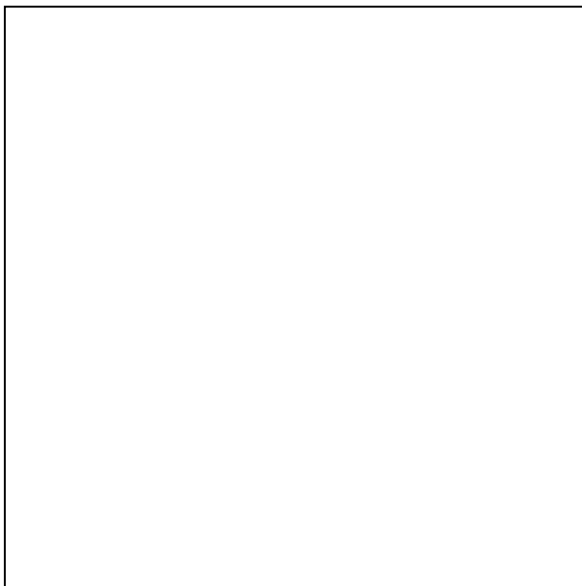
Voltage(V): 219.80 V
Current(A): 0.1370 A
Power(W): 28.70 W
Power Factor: 0.9470
Lamp Luminous Flux: 1891.02

Photometric Results

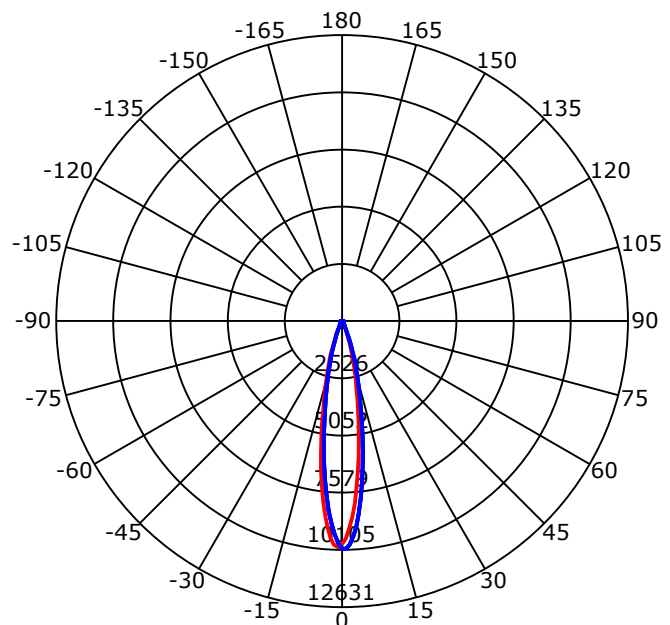
CIE Class: Direct
Luminaire Luminous Flux: 1891.018 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 65.88 lm/W
Beam Angle(50%) C0-180,C90-270: 18.9,19.4
Field Angle(10%) C0-180,C90-270: 40.2,40.7
S/MH C0-180,C90-270: 0.353,0.353

Max. Intensity: 10104.86 cd
Max.Intensity Angle: C=225 Gamma=0
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 9844.42 cd
Effective Luminous Flux: 1348.32 lm
ERP(ϕ use)(120deg): 1804.00 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 18.9 deg,19.4 deg

C0-180 — C90-270

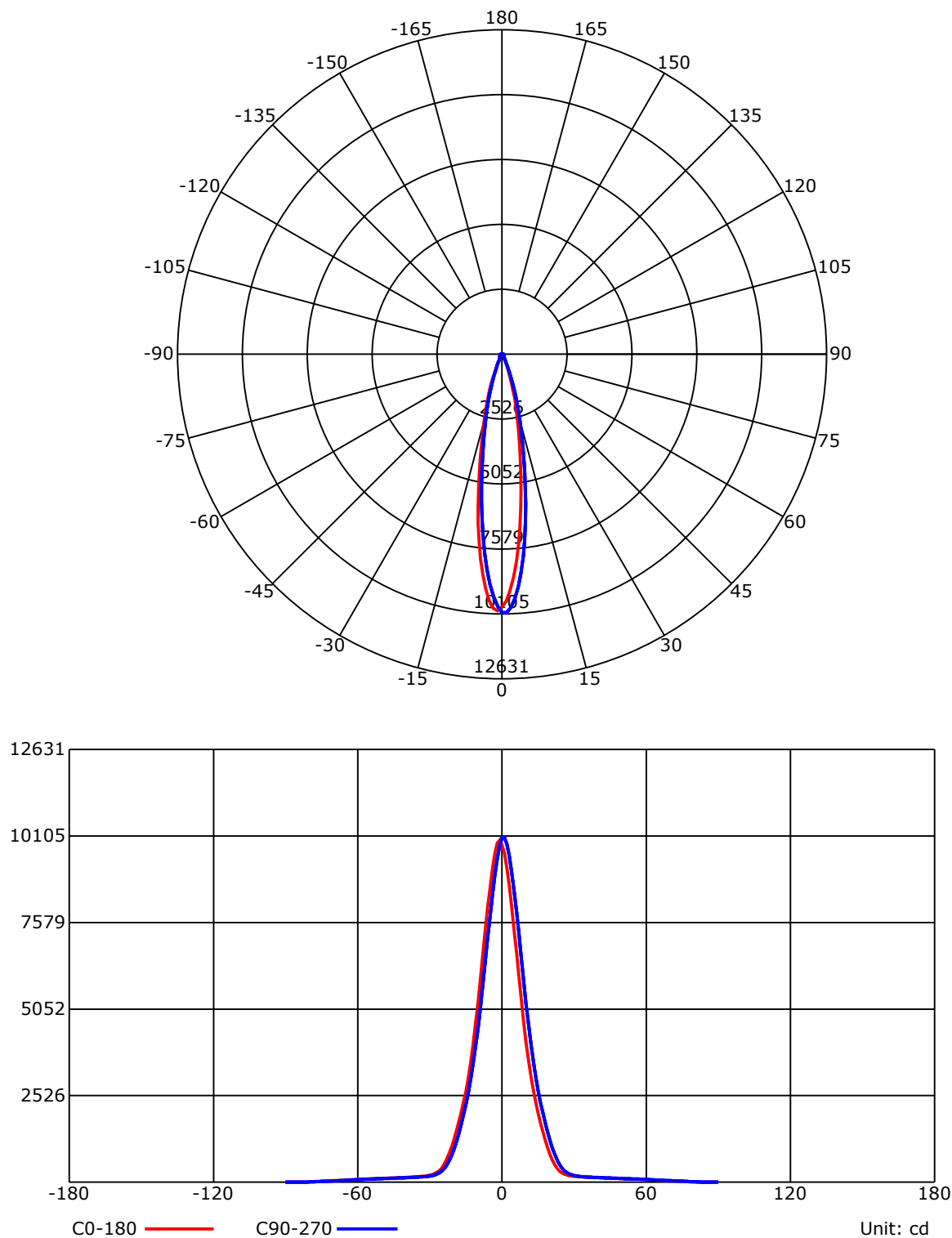
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/8/1 17:52:27

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: 2025/8/1 17:52:27

Luminous Intensity Distribution Curve



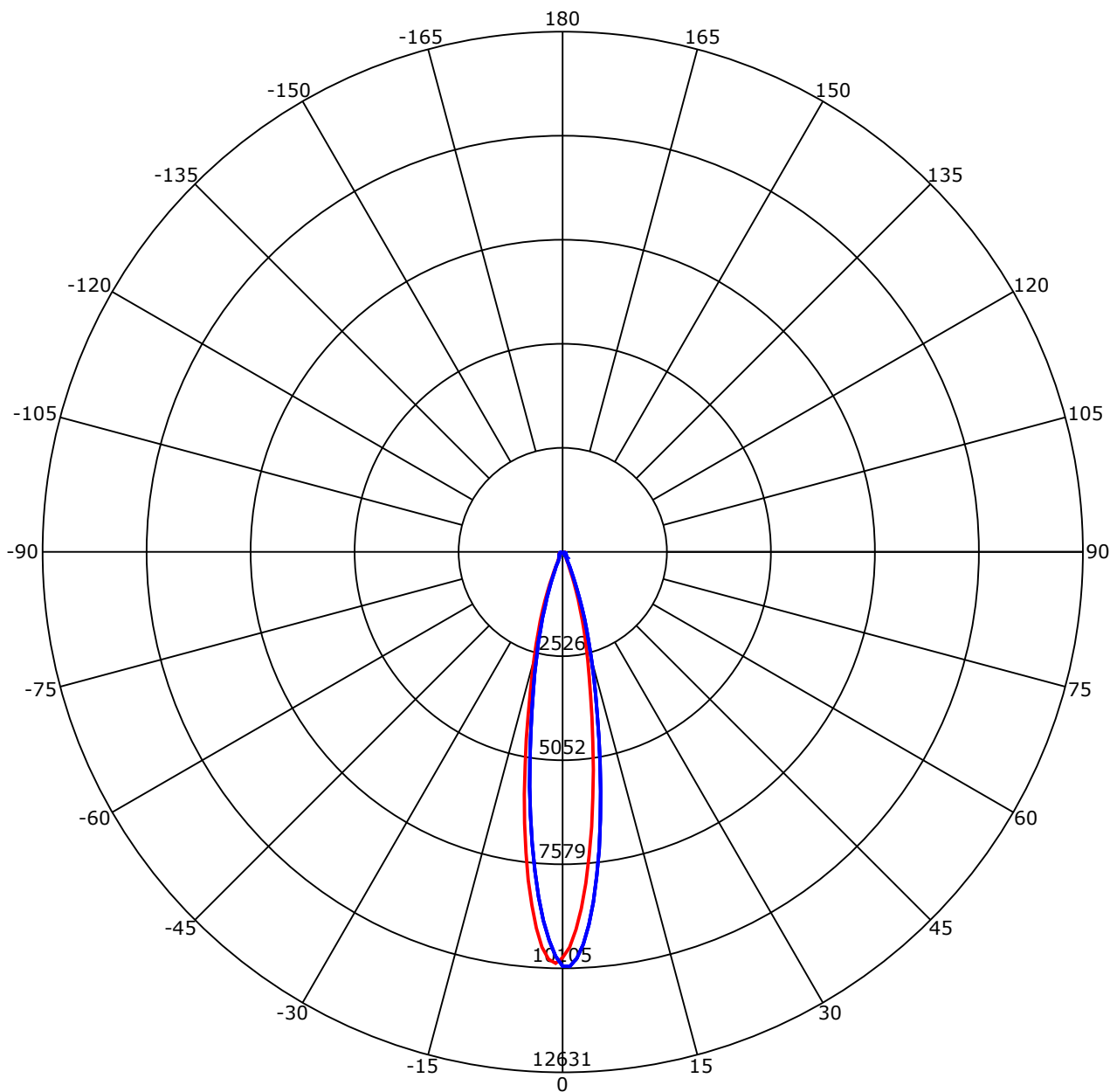
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Luminous Intensity Distribution Curve



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 17:52:27

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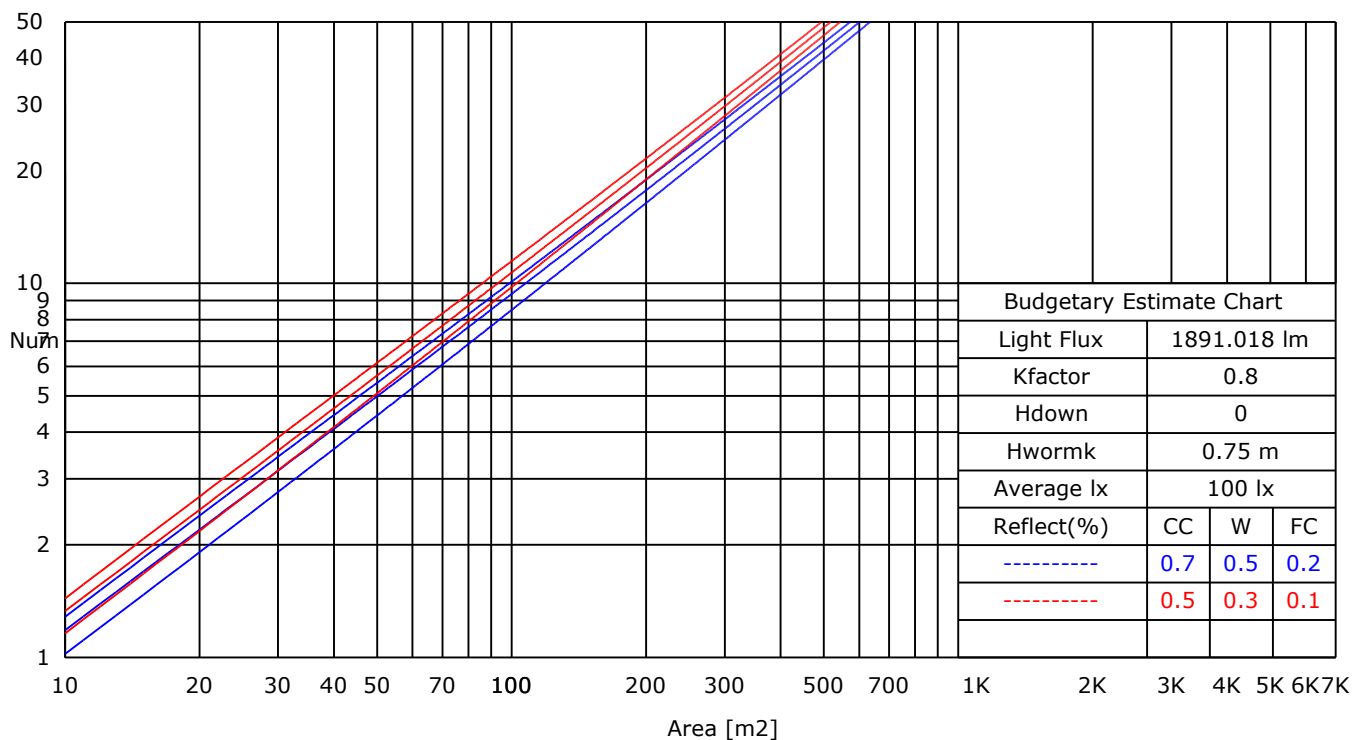
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UTILIZATION FACTORS TABLE

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

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



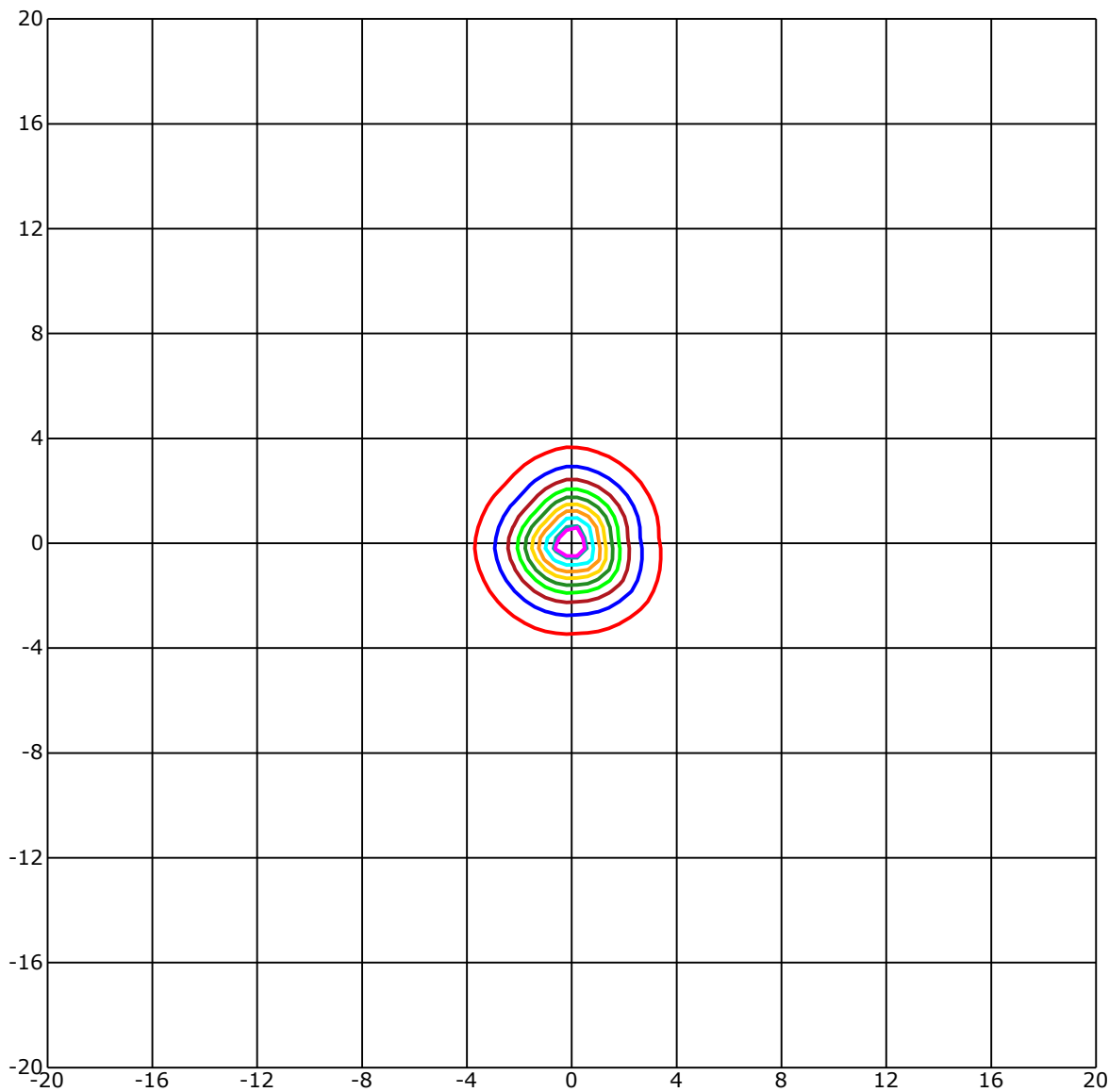
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G Range: 0 - 90 Deg
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ISOLX DIAGRAM



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

92.965(92%Emax)	50.524(50%Emax)
90.944(90%Emax)	40.419(40%Emax)
80.839(80%Emax)	30.315(30%Emax)
70.734(70%Emax)	20.21(20%Emax)
60.629(60%Emax)	10.105(10%Emax)

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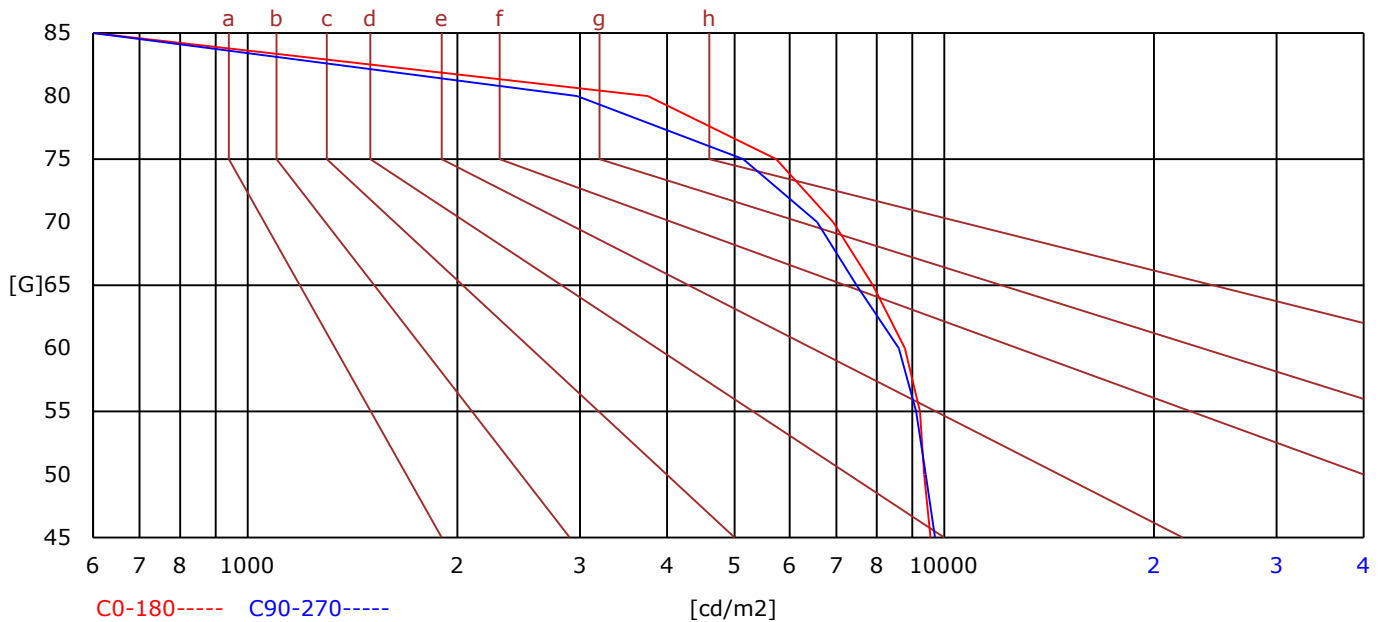
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	9561	9358	9232	8782	7895	6929	5739	3755	0
C90	9701	9402	9108	8606	7485	6572	5148	2971	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



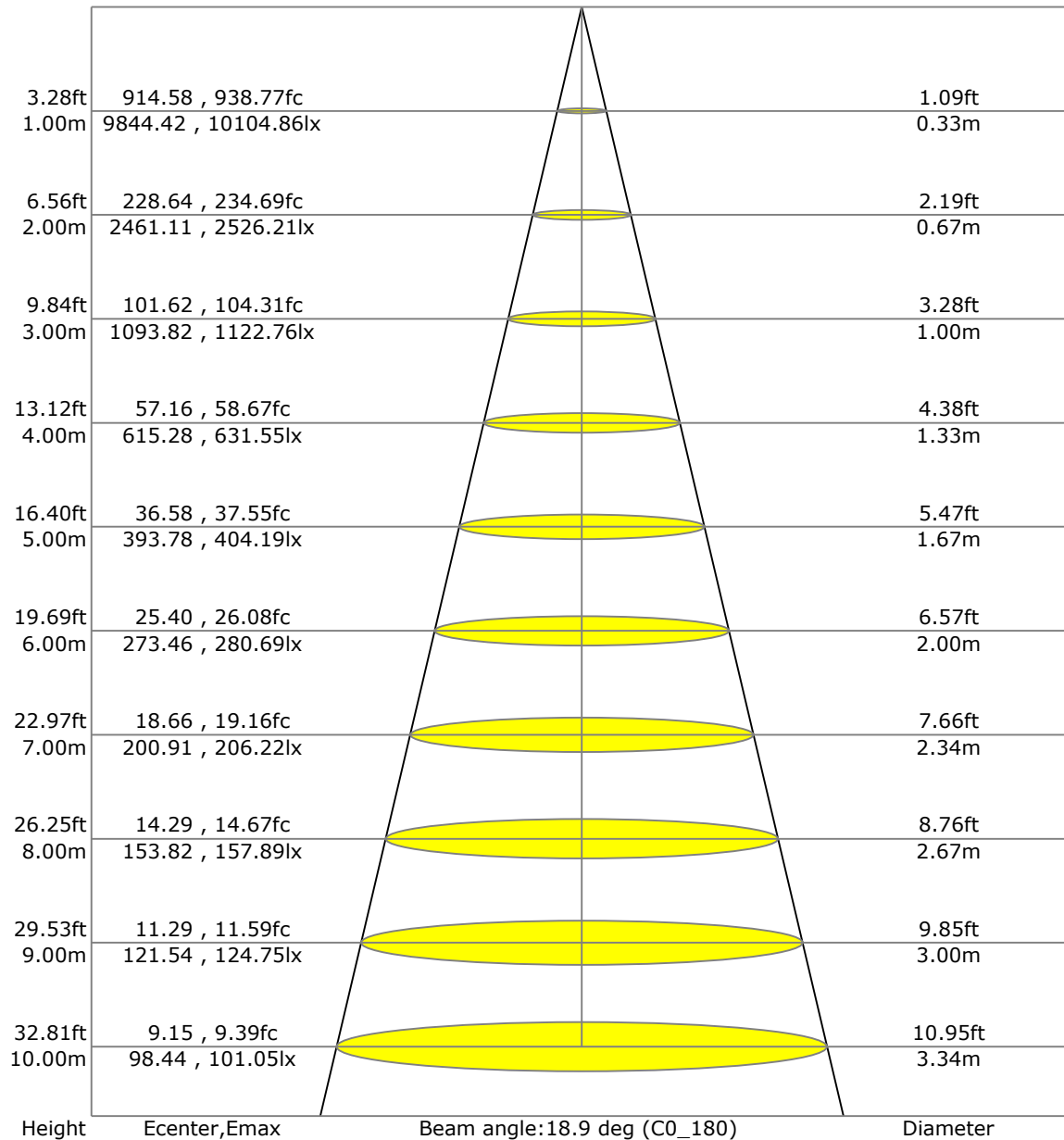
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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Humidity: 60
Test Distance: 6.87 m
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LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 25
 Operators: QC01
 Test Date: 2025/8/1 17:52:27

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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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	10.01	10.07	10.21	10.26	10.51	10.14	10.21	10.34	10.40	10.64
3H	10.15	10.22	10.36	10.41	10.66	10.26	10.33	10.47	10.53	10.77
4H	10.16	10.23	10.37	10.43	10.68	10.27	10.34	10.48	10.54	10.79
6H	10.15	10.22	10.37	10.42	10.67	10.25	10.33	10.47	10.53	10.78
8H	10.14	10.21	10.36	10.41	10.67	10.24	10.32	10.46	10.52	10.77
12H	10.13	10.20	10.35	10.41	10.66	10.23	10.31	10.46	10.51	10.77
4H 2H	11.71	11.78	11.92	11.97	12.22	12.06	12.13	12.28	12.33	12.58
3H	11.96	12.04	12.19	12.24	12.50	12.30	12.37	12.52	12.58	12.83
4H	12.01	12.08	12.24	12.30	12.56	12.33	12.40	12.56	12.62	12.88
6H	12.01	12.08	12.25	12.30	12.57	12.32	12.39	12.56	12.61	12.88
8H	12.00	12.07	12.24	12.29	12.56	12.31	12.38	12.55	12.60	12.87
12H	11.98	12.05	12.23	12.28	12.55	12.29	12.36	12.54	12.59	12.86
8H 4H	11.80	11.88	12.02	12.08	12.33	12.33	12.40	12.55	12.61	12.86
6H	12.14	12.21	12.40	12.45	12.73	12.66	12.73	12.92	12.97	13.24
8H	12.13	12.19	12.39	12.44	12.72	12.64	12.71	12.91	12.96	13.23
12H	12.11	12.17	12.38	12.43	12.71	12.63	12.69	12.90	12.94	13.23
12H 4H	12.13	12.20	12.38	12.43	12.70	12.66	12.72	12.91	12.96	13.23
6H	12.13	12.19	12.39	12.44	12.72	12.65	12.71	12.91	12.96	13.24

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Humidity: 60
Test Distance: 6.87 m
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ZONAL LUMINOUS FLUX TABLE

[illegible]

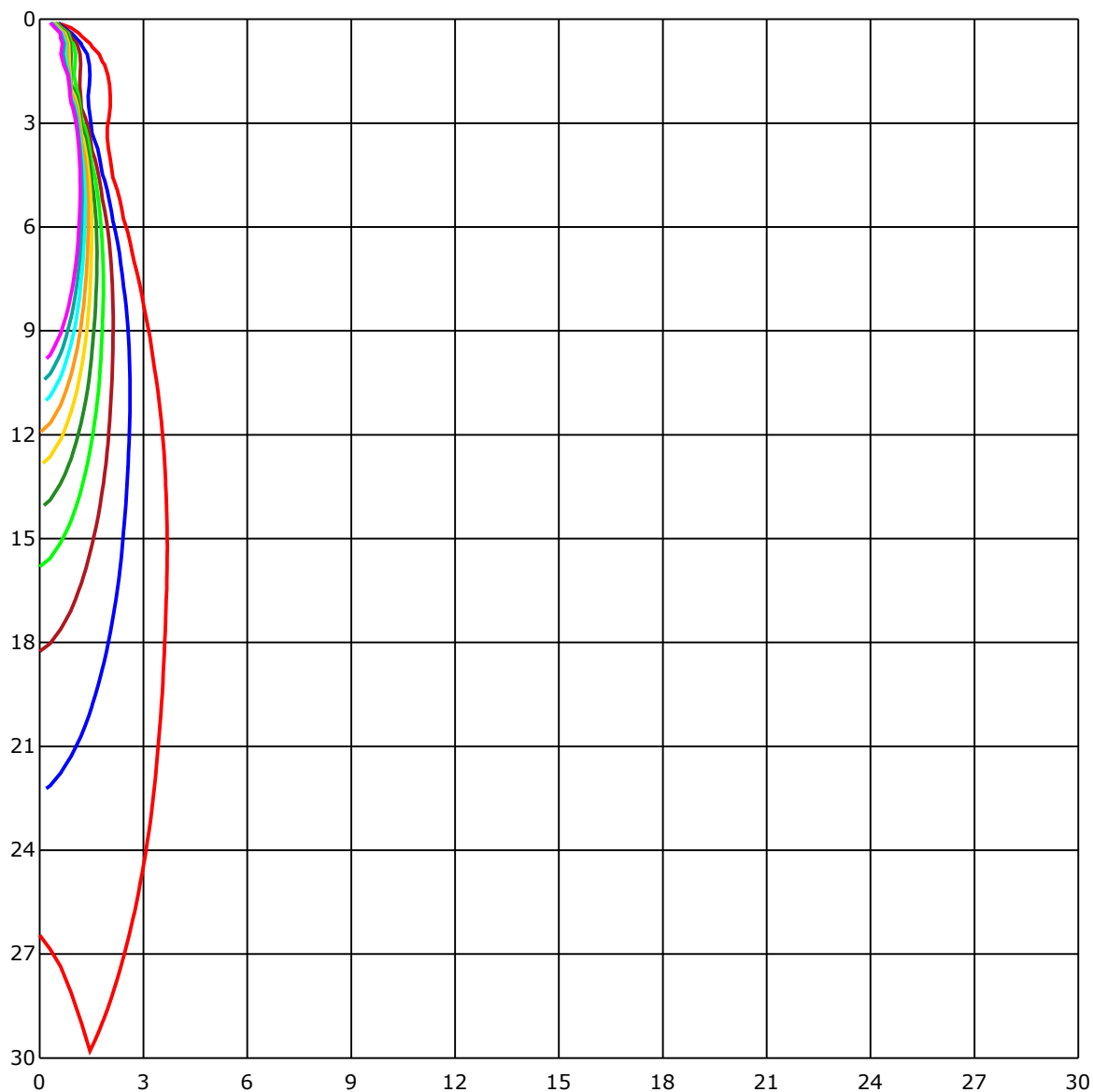
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SPACE ISOLX DIAGRAM



98.446	49.223
88.601	39.378
78.756	29.534
68.912	19.689
59.067	9.845

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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	9844.42	10104.86	10052.94	10010.18	9844.42	10104.86	10052.94	10010.18	9844.42	
G1	9596.17	9955.76	10059.83	9755.08	9986.91	10006.97	9810.87	10002.72	9596.17	
G2	9168.52	9645.16	9867.46	9360.33	9896.34	9721.05	9431.4	9842.68	9168.52	
G3	8665.02	9238.23	9530.38	8852.91	9603.15	9276.03	8956.56	9511.35	8665.02	
G4	8060.0	8738.84	9064.31	8267.29	9151.62	8732.13	8396.14	9065.25	8060.0	
G5	7389.29	8146.23	8529.71	7624.8	8603.19	8133.63	7770.45	8512.81	7389.29	
G6	6703.52	7504.87	7905.95	6939.12	8006.62	7482.97	7102.24	7876.13	6703.52	
G7	6009.25	6807.78	7266.53	6220.03	7349.08	6799.66	6427.27	7209.85	6009.25	
G8	5341.23	6117.8	6557.4	5537.0	6656.13	6124.74	5757.79	6524.64	5341.23	
G9	4671.36	5442.56	5881.77	4866.9	5954.08	5444.21	5104.49	5830.04	4671.36	
G10	4079.37	4804.46	5210.59	4263.11	5263.16	4797.8	4492.15	5150.08	4079.37	
G11	3542.18	4216.85	4602.41	3729.83	4627.85	4204.68	3946.65	4521.98	3542.18	
G12	3090.17	3700.76	4044.68	3247.52	4036.37	3679.85	3458.26	3974.97	3090.17	
G13	2696.12	3226.38	3543.97	2835.64	3517.44	3228.55	3025.18	3467.79	2696.12	
G14	2345.64	2800.85	3088.28	2471.99	3071.24	2819.45	2631.04	3037.59	2345.64	
G15	2024.98	2424.98	2690.32	2142.22	2677.57	2461.98	2283.48	2658.04	2024.98	
G16	1738.31	2090.68	2335.02	1851.25	2341.96	2139.67	1966.79	2316.0	1738.31	
G17	1462.96	1794.85	2015.17	1581.9	2035.27	1840.3	1671.9	2002.8	1462.96	
G18	1215.08	1507.52	1723.49	1328.4	1762.19	1563.11	1404.2	1710.09	1215.08	
G19	993.78	1253.6	1455.74	1093.51	1502.04	1310.23	1171.66	1441.44	993.78	
G20	802.87	1023.7	1208.15	889.94	1254.87	1086.24	963.43	1199.46	802.87	
G21	634.33	825.47	985.28	711.3	1031.68	887.44	780.12	980.14	634.33	
G22	500.95	656.74	796.64	563.53	841.38	709.98	624.23	786.58	500.95	
G23	391.97	520.11	637.91	443.32	674.4	568.11	499.96	627.34	391.97	
G24	318.34	409.62	506.66	353.6	536.96	452.76	400.14	503.69	318.34	
G25	266.43	331.09	404.24	289.03	425.76	370.64	329.62	402.97	266.43	
G26	231.41	273.13	327.64	243.44	348.88	310.41	276.2	334.3	231.41	
G27	205.68	231.36	275.21	211.39	291.35	265.86	238.58	282.62	205.68	
G28	188.03	203.75	237.92	190.53	251.8	233.96	211.25	246.65	188.03	
G29	176.85	185.01	212.67	176.85	223.81	211.96	191.57	221.73	176.85	
G30	167.27	170.9	194.26	166.32	205.21	197.0	179.07	204.22	167.27	
G31	161.22	162.03	181.57	161.41	190.25	184.82	170.81	190.68	161.22	
G32	156.27	154.57	171.7	153.67	180.2	176.99	162.64	181.71	156.27	
G33	151.41	149.14	165.61	148.62	174.25	169.15	156.65	174.63	151.41	
G34	146.97	144.89	158.35	145.27	167.64	163.68	152.02	168.21	146.97	
G35	143.2	141.31	154.85	141.5	161.22	159.1	147.77	162.69	143.2	
G36	140.74	137.44	149.52	138.71	158.53	153.72	143.67	159.29	140.74	

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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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	138.0	134.7	147.21	135.27	152.63	150.18	140.08	154.15	138.0	
G38	135.64	131.59	141.83	131.77	150.42	146.17	136.68	150.61	135.64	
G39	130.5	128.75	139.09	129.74	145.98	143.95	134.46	146.4	130.5	
G40	129.04	125.31	135.79	126.25	142.02	139.94	130.03	142.39	129.04	
G41	124.74	123.47	133.24	122.9	138.0	136.35	127.67	138.24	124.74	
G42	122.95	120.54	129.46	121.15	135.27	132.86	123.89	135.31	122.95	
G43	119.6	117.57	126.49	118.89	131.73	129.7	121.86	131.68	119.6	
G44	116.67	114.64	125.17	116.01	129.41	127.24	118.84	129.51	116.67	
G45	114.12	112.56	121.86	114.22	126.3	125.21	115.87	126.49	114.12	
G46	112.0	109.64	117.57	111.1	124.79	121.01	112.99	124.08	112.0	
G47	108.93	108.36	115.21	107.51	121.25	119.55	110.96	120.35	108.93	
G48	106.19	105.3	113.51	106.15	118.61	115.02	108.13	117.85	106.19	
G49	103.13	103.5	110.77	103.17	116.01	112.8	105.53	115.44	103.13	
G50	102.51	100.15	107.42	100.62	113.08	109.64	103.17	113.79	102.51	
G51	98.12	98.41	105.06	98.03	109.73	107.56	100.62	109.12	98.12	
G52	96.28	95.9	102.18	95.9	106.95	104.26	98.22	107.37	96.28	
G53	93.45	93.21	101.0	92.65	104.78	101.43	93.92	104.68	93.45	
G54	91.37	90.0	97.04	90.0	101.8	98.78	91.37	101.24	91.37	
G55	89.11	88.16	94.68	86.98	98.83	96.23	89.15	98.08	89.11	
G56	86.37	84.95	91.66	84.77	96.09	92.65	86.18	95.72	86.37	
G57	82.31	82.69	90.62	82.03	92.69	90.15	83.82	92.27	82.31	
G58	80.47	80.71	85.9	78.72	91.47	86.7	80.57	90.95	80.47	
G59	74.9	77.17	83.3	74.95	87.41	83.11	76.93	86.04	74.9	
G60	71.98	73.11	79.57	71.64	83.35	78.35	72.26	82.59	71.98	
G61	68.15	69.99	75.99	67.54	78.49	75.33	69.9	78.3	68.15	
G62	64.85	65.56	71.27	63.43	74.71	70.7	64.66	75.89	64.85	
G63	60.08	63.15	68.01	59.75	70.37	68.2	62.54	70.42	60.08	
G64	57.58	58.19	64.9	57.11	68.01	64.0	58.15	67.35	57.58	
G65	53.14	55.55	61.64	52.67	63.24	60.18	53.9	63.72	53.14	
G66	50.36	52.39	57.16	49.51	59.28	56.68	49.79	60.51	50.36	
G67	47.1	48.52	54.7	45.92	56.12	52.81	46.91	56.4	47.1	
G68	44.13	45.36	50.26	43.28	53.1	49.7	43.47	52.95	44.13	
G69	39.98	42.29	48.99	40.12	49.7	45.88	39.93	49.08	39.98	
G70	37.9	39.46	44.27	37.43	46.58	42.57	36.67	47.34	37.9	
G71	34.08	36.53	41.39	33.32	42.34	40.49	34.08	42.67	34.08	
G72	31.39	32.57	37.62	31.57	39.27	36.53	30.58	39.6	31.39	
G73	28.13	30.68	34.78	27.85	37.0	33.79	27.7	36.67	28.13	

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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: