

Report No.:

Test Time: 2025/6/19 17:30:31

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP221CT042.(B)-15°-7W
Lamp Type:
Luminous Width: 38 mm
Luminous Length: 38 mm
Luminous Height: 34 mm

Voltage(V): 219.80 V
Current(A): 0.0360 A
Power(W): 7.37 W
Power Factor: 0.9090
Lamp Luminous Flux: 565.46

Photometric Results

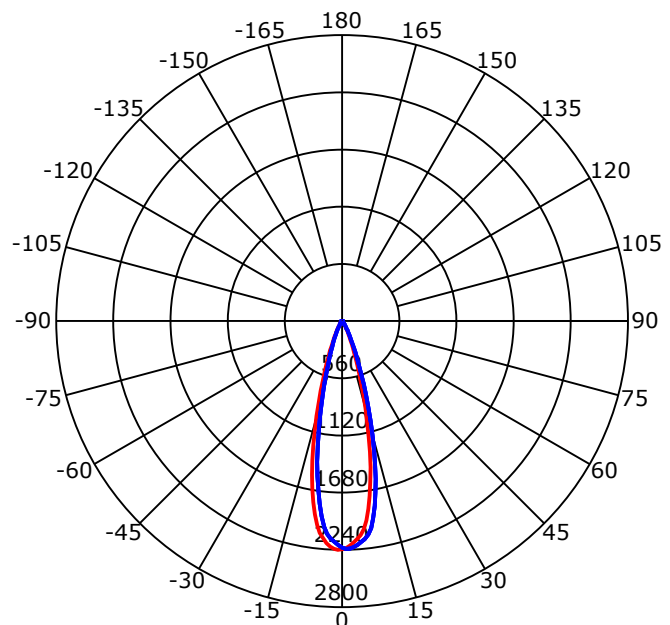
CIE Class: Direct
Luminaire Luminous Flux: 565.4572 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 76.69 lm/W
Beam Angle(50%) C0-180,C90-270: 27.2,27.2
Field Angle(10%) C0-180,C90-270: 47.5,47.7
S/MH C0-180,C90-270: 0.462,0.462

Max. Intensity: 2239.78 cd
Max.Intensity Angle: C=180 Gamma=1
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 2234.96 cd
Effective Luminous Flux: 489.49 lm
ERP(ϕ use)(120deg): 565.05 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 27.2 deg,27.2 deg

C0-180 — C90-270 —

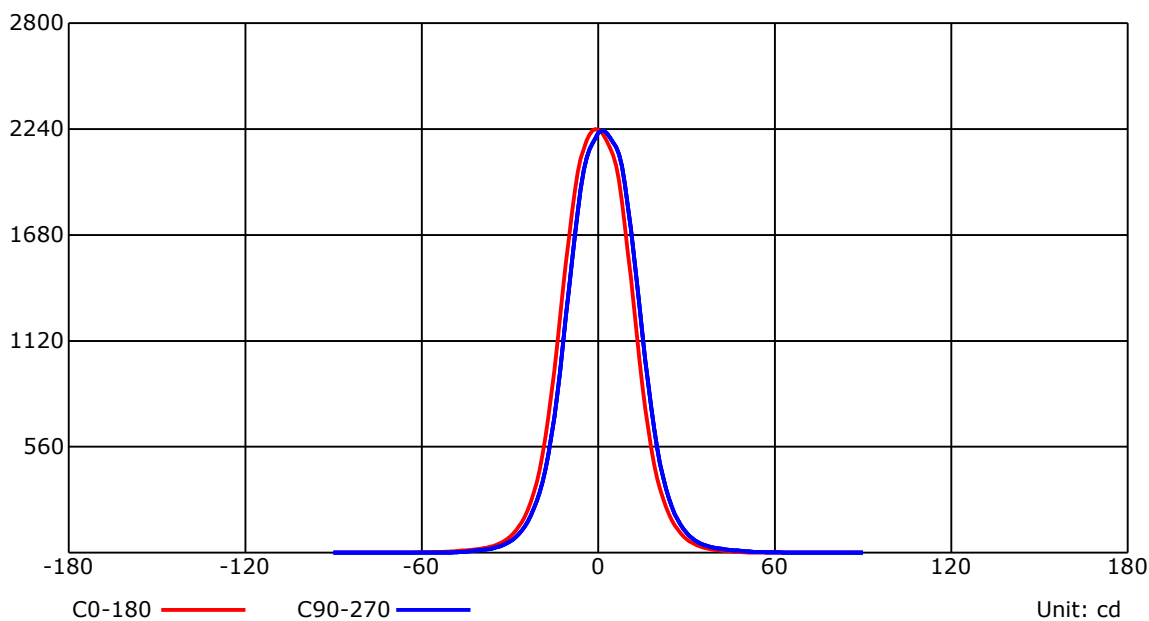
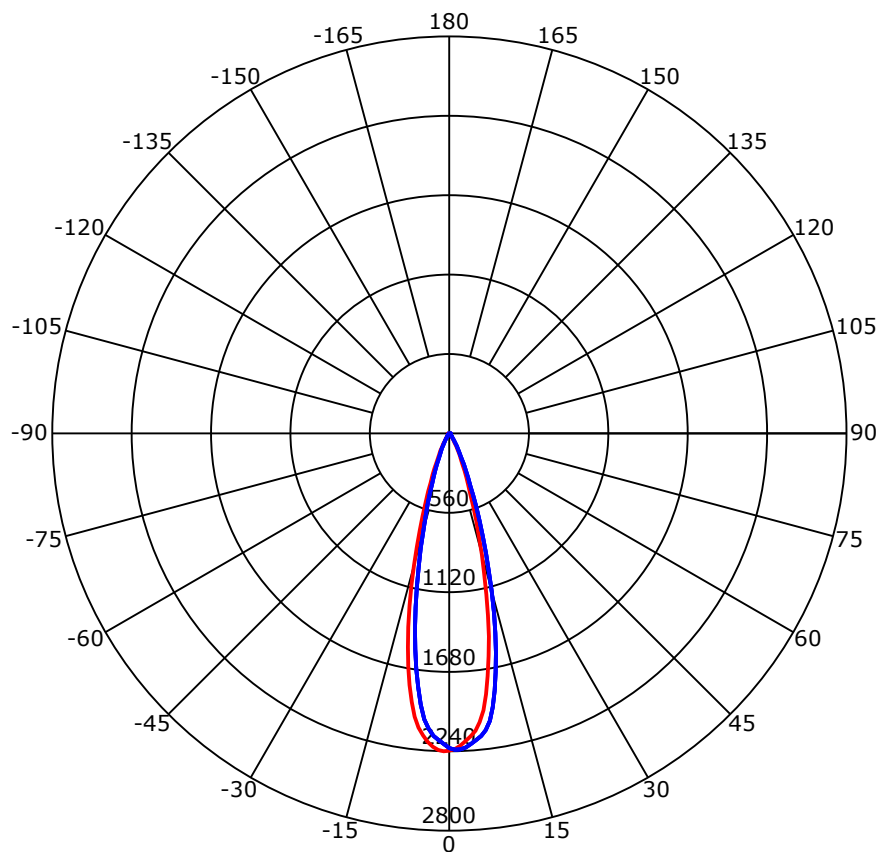
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/6/19 17:30:31

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



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

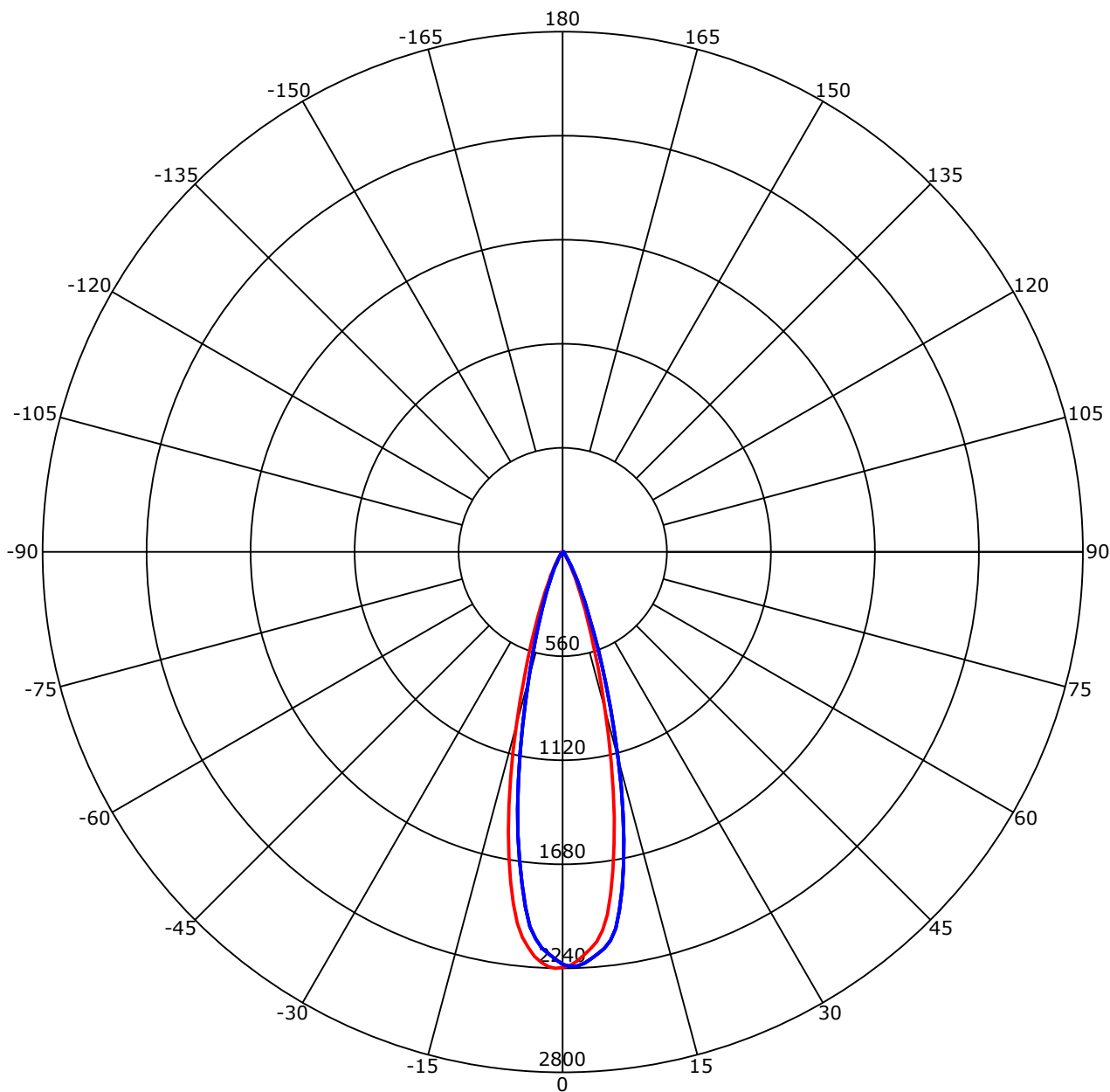
Test Distance: 6.87 m

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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
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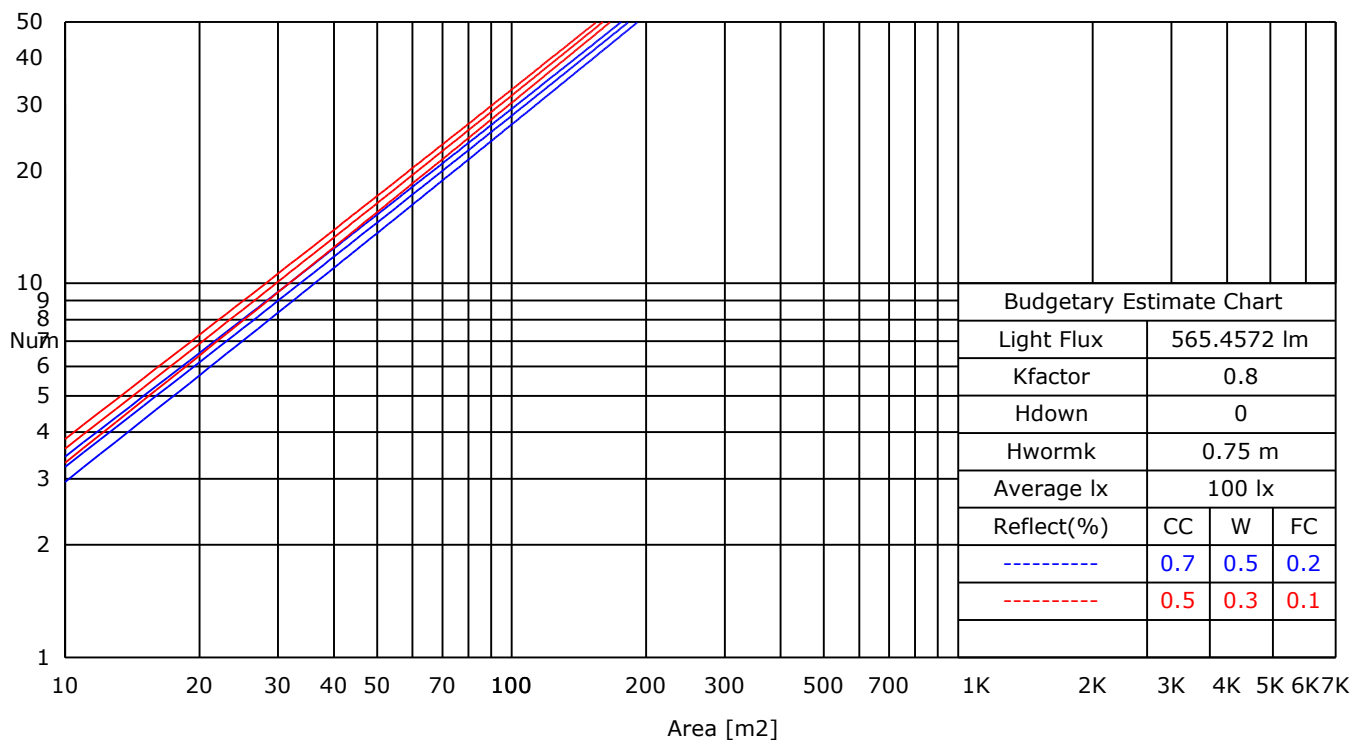
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UTILIZATION FACTORS TABLE

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	0.87	0.83	0.80	0.86	0.82	0.79	0.84	0.80	0.76	0.81	0.76	0.72	0.76	0.71	0.67	0.62
2	0.83	0.80	0.78	0.83	0.80	0.77	0.81	0.77	0.74	0.78	0.74	0.70	0.74	0.70	0.66	0.61
3	0.81	0.78	0.77	0.81	0.78	0.75	0.79	0.75	0.72	0.77	0.72	0.68	0.73	0.68	0.64	0.60
4	0.79	0.77	0.75	0.79	0.76	0.74	0.77	0.73	0.71	0.75	0.71	0.67	0.72	0.67	0.63	0.59
5	0.77	0.75	0.74	0.77	0.74	0.73	0.76	0.72	0.69	0.73	0.69	0.66	0.71	0.66	0.62	0.58
6	0.76	0.74	0.73	0.76	0.73	0.71	0.74	0.71	0.68	0.72	0.68	0.65	0.69	0.65	0.61	0.57
7	0.75	0.73	0.72	0.74	0.72	0.70	0.73	0.69	0.67	0.71	0.67	0.64	0.68	0.64	0.60	0.57
8	0.74	0.72	0.71	0.73	0.71	0.69	0.71	0.68	0.66	0.69	0.66	0.63	0.67	0.63	0.59	0.56
9	0.72	0.71	0.70	0.72	0.70	0.69	0.70	0.67	0.65	0.68	0.65	0.62	0.66	0.62	0.58	0.55
10	0.71	0.70	0.69	0.71	0.69	0.68	0.69	0.66	0.64	0.67	0.64	0.61	0.65	0.61	0.58	0.55

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



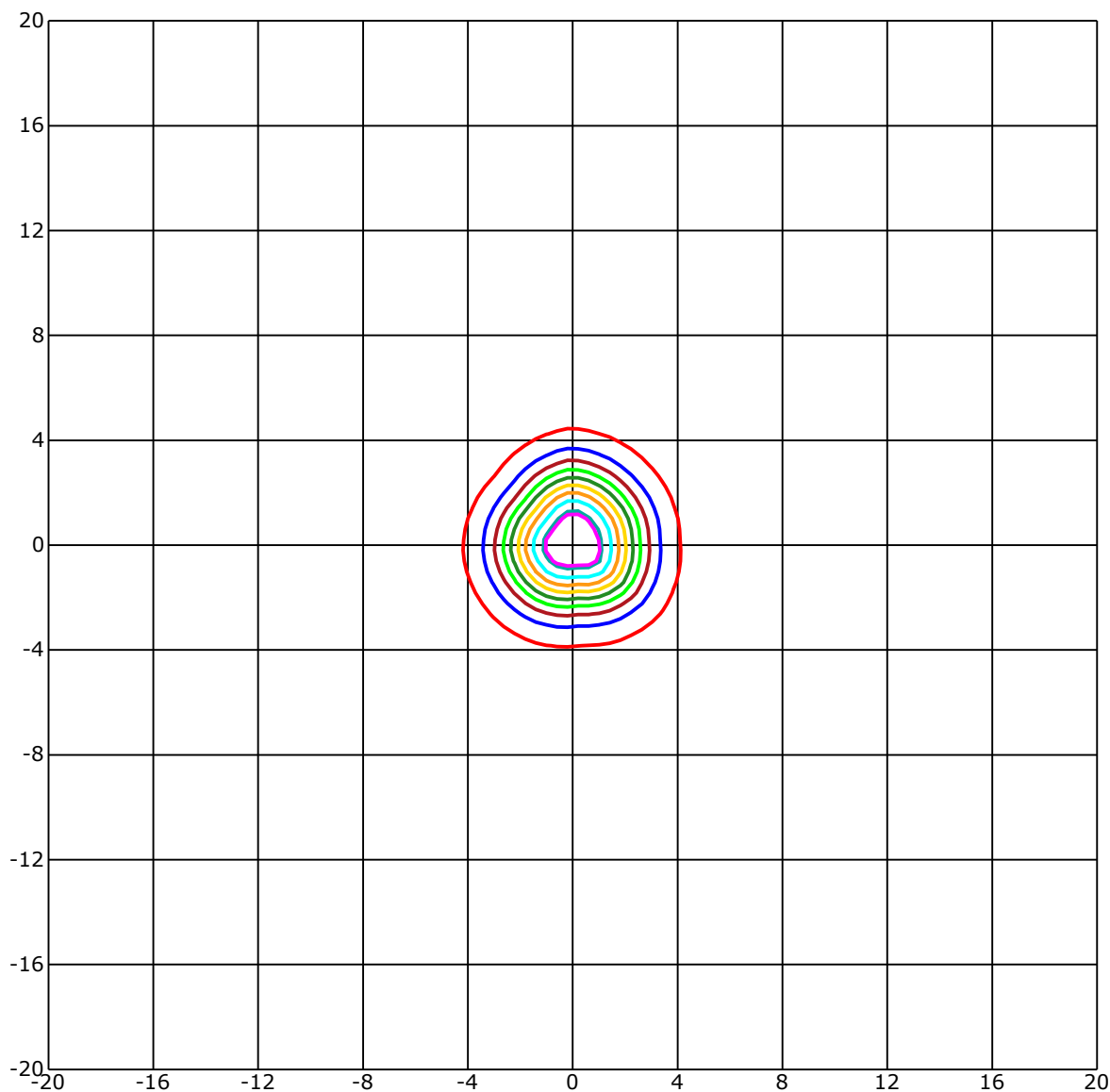
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G Range: 0 - 90 Deg
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Humidity: 60
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ISOLX DIAGRAM



20.597(92%Emax)	11.194(50%Emax)
20.149(90%Emax)	8.955(40%Emax)
17.91(80%Emax)	6.716(30%Emax)
15.671(70%Emax)	4.478(20%Emax)
13.433(60%Emax)	2.239(10%Emax)

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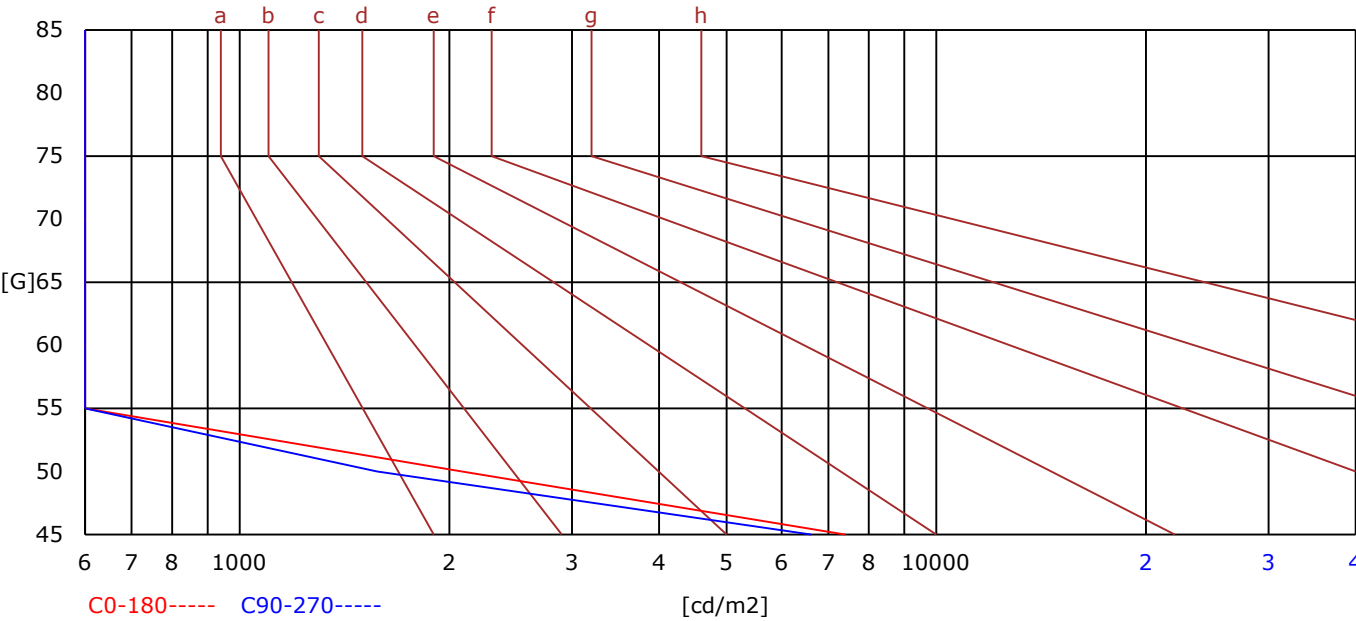
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	7396	2085	0	0	0	0	0	0	0
C90	6610	1576	0	0	0	0	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



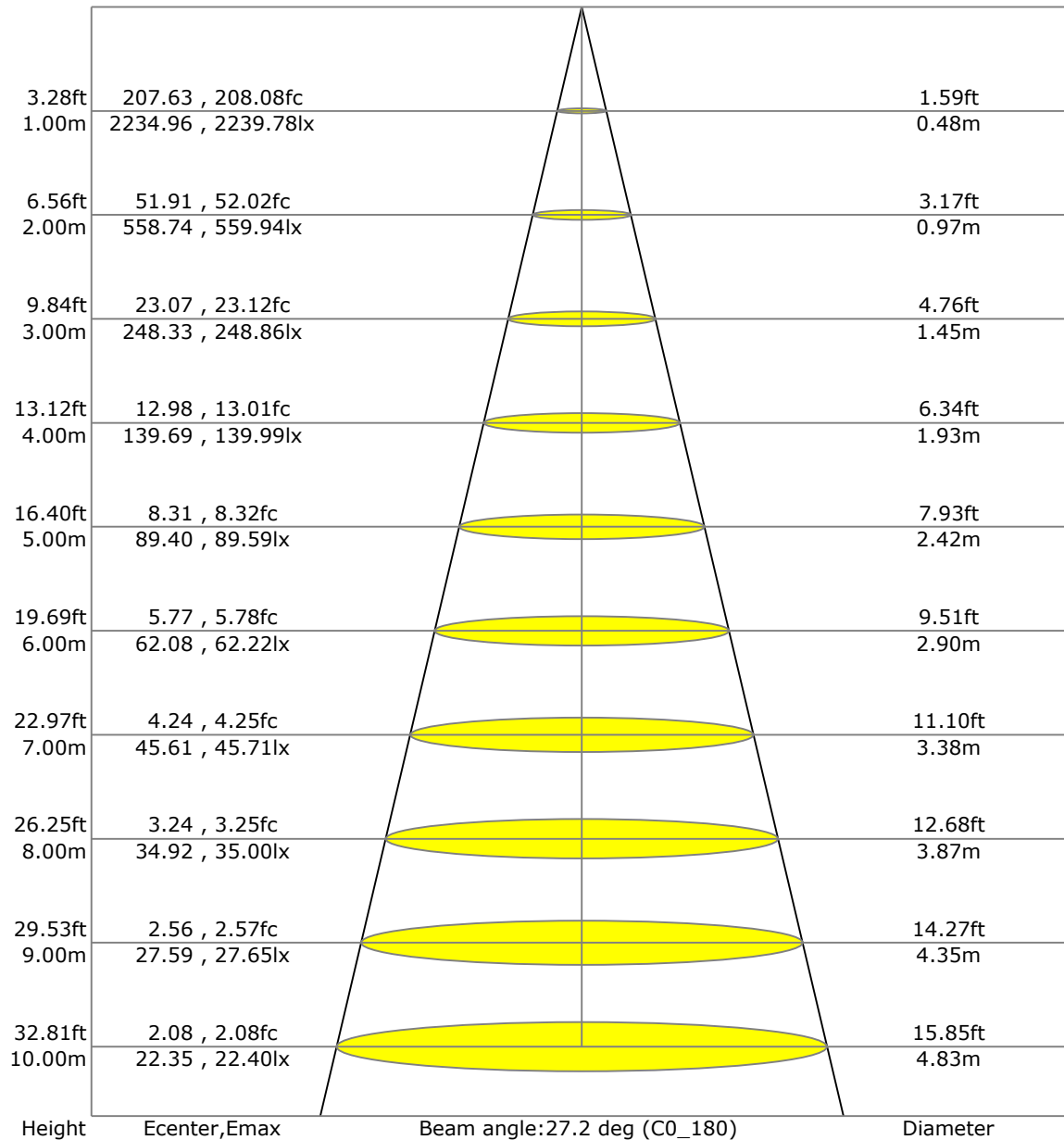
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LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 25
 Operators: QC01
 Test Date: 2025/6/19 17:30:31

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	7.65	7.70	7.85	7.89	8.14	8.05	8.10	8.25	8.29	8.53
	3H	7.63	7.69	7.83	7.88	8.13	8.03	8.08	8.23	8.28	8.52
	4H	7.61	7.67	7.83	7.87	8.12	8.01	8.07	8.22	8.27	8.52
	6H	7.60	7.66	7.82	7.86	8.11	8.00	8.06	8.22	8.26	8.51
	8H	7.59	7.65	7.81	7.86	8.11	7.99	8.05	8.21	8.26	8.51
	12H	7.58	7.65	7.81	7.85	8.11	7.98	8.05	8.21	8.25	8.51
4H	2H	7.61	7.67	7.82	7.87	8.12	8.03	8.09	8.24	8.29	8.54
	3H	7.58	7.65	7.81	7.85	8.11	8.00	8.06	8.22	8.27	8.52
	4H	7.57	7.63	7.80	7.84	8.10	7.98	8.05	8.21	8.26	8.52
	6H	7.55	7.61	7.78	7.83	8.09	7.96	8.02	8.20	8.25	8.51
	8H	7.53	7.60	7.78	7.82	8.09	7.95	8.01	8.19	8.24	8.51
	12H	7.52	7.58	7.77	7.82	8.09	7.94	8.00	8.19	8.23	8.50
8H	4H	7.59	7.65	7.81	7.86	8.11	8.01	8.07	8.23	8.27	8.53
	6H	7.51	7.57	7.76	7.81	8.08	7.92	7.98	8.18	8.22	8.50
	8H	7.49	7.55	7.76	7.80	8.08	7.91	7.97	8.17	8.22	8.49
	12H	7.48	7.53	7.75	7.79	8.07	7.89	7.95	8.17	8.21	8.49
12H	4H	7.52	7.58	7.77	7.82	8.09	7.94	8.00	8.19	8.23	8.50
	6H	7.49	7.55	7.76	7.80	8.08	7.91	7.97	8.17	8.22	8.49

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ZONAL LUMINOUS FLUX TABLE

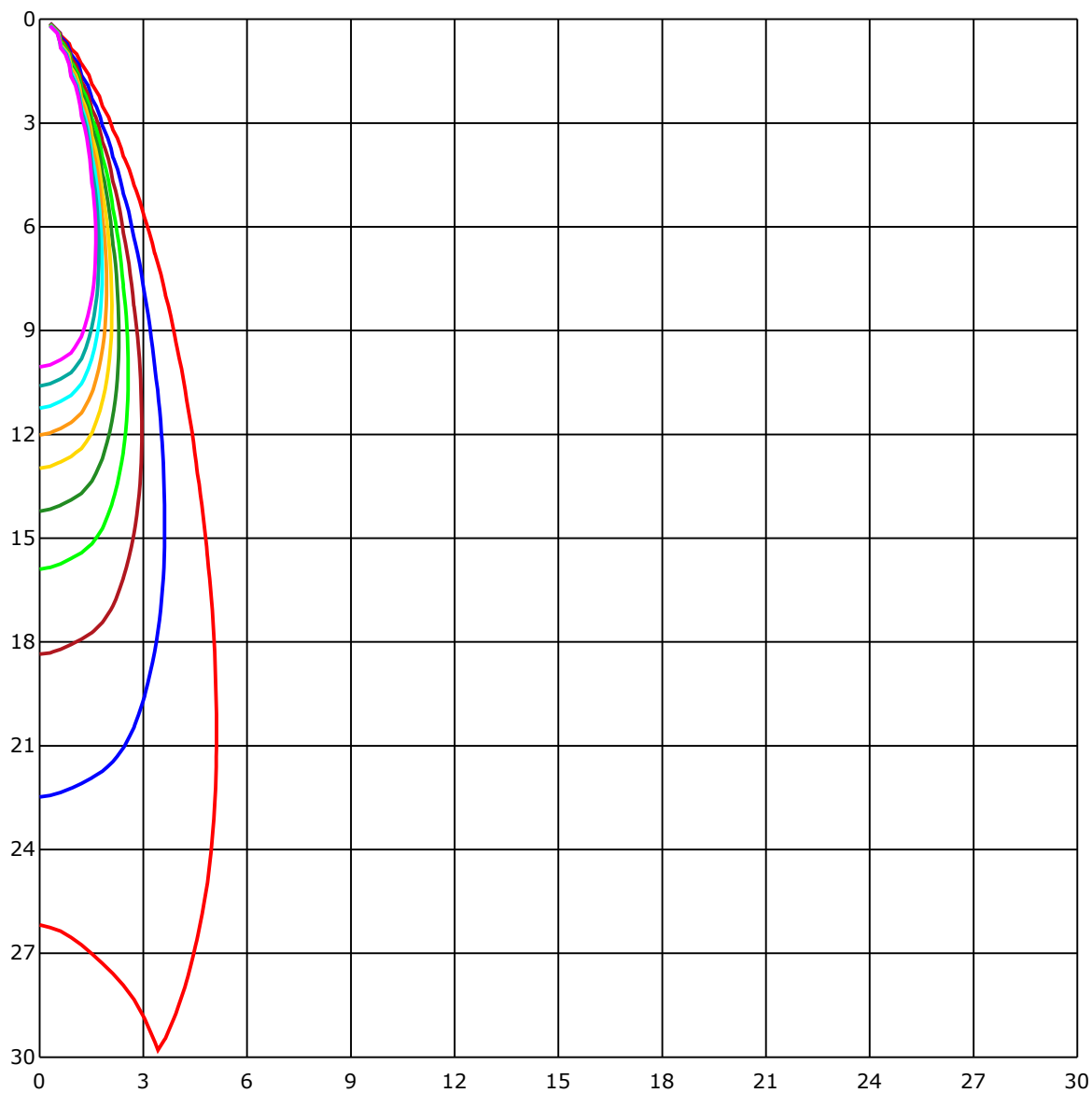
[illegible]

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SPACE ISOLX DIAGRAM



22.116	11.058
19.904	8.846
17.693	6.635
15.481	4.423
13.269	2.212

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Remarks:

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	2234.96	2221.79	2218.92	2238.74	2234.96	2221.79	2218.92	2238.74	2234.96	
G1	2225.1	2224.63	2229.68	2221.79	2239.78	2215.0	2191.54	2233.59	2225.1	
G2	2201.74	2207.59	2229.39	2197.44	2231.94	2202.3	2163.46	2213.06	2201.74	
G3	2171.95	2184.18	2216.13	2169.55	2211.41	2184.18	2134.06	2190.5	2171.95	
G4	2139.58	2151.38	2194.0	2137.17	2180.59	2143.26	2087.43	2172.57	2139.58	
G5	2104.27	2120.6	2170.44	2091.25	2135.0	2096.44	2022.77	2145.15	2104.27	
G6	2046.27	2072.32	2144.58	2026.3	2084.03	2027.01	1921.34	2104.37	2046.27	
G7	1967.03	2010.78	2106.4	1931.91	2011.77	1936.54	1800.85	2036.74	1967.03	
G8	1856.73	1923.65	2045.66	1814.58	1911.76	1826.14	1673.74	1938.71	1856.73	
G9	1731.04	1816.94	1952.06	1683.51	1795.75	1701.54	1539.14	1826.05	1731.04	
G10	1593.93	1684.08	1838.84	1550.98	1668.03	1568.78	1398.87	1702.86	1593.93	
G11	1457.82	1547.54	1714.14	1413.12	1534.8	1432.85	1250.53	1567.83	1457.82	
G12	1310.0	1412.75	1580.34	1274.88	1394.57	1283.8	1103.56	1431.81	1310.0	
G13	1163.5	1269.79	1443.05	1125.22	1248.5	1139.99	958.99	1281.21	1163.5	
G14	1016.67	1121.45	1303.48	978.58	1100.87	996.8	833.12	1131.55	1016.67	
G15	882.58	982.97	1155.85	845.01	962.06	867.24	714.61	990.14	882.58	
G16	761.0	852.56	1015.35	727.59	830.81	746.42	609.93	858.61	761.0	
G17	649.29	735.42	884.0	617.76	714.47	639.99	517.14	737.12	649.29	
G18	549.04	628.47	764.17	520.91	610.26	542.81	438.88	629.89	549.04	
G19	463.9	533.56	654.24	437.33	517.8	461.3	372.86	535.02	463.9	
G20	393.95	450.26	555.04	368.47	436.43	391.36	319.15	456.11	393.95	
G21	336.56	380.55	468.71	310.18	370.45	333.4	272.23	389.99	336.56	
G22	284.46	322.92	397.68	261.9	314.0	283.42	230.98	332.27	284.46	
G23	241.32	273.69	336.99	220.22	266.71	242.5	195.77	282.95	241.32	
G24	203.56	232.21	285.68	185.25	226.17	207.29	165.43	241.32	203.56	
G25	172.08	196.24	241.84	155.75	191.67	176.94	140.03	205.26	172.08	
G26	145.04	165.57	204.17	130.31	162.55	150.61	118.37	175.29	145.04	
G27	121.77	138.71	172.84	109.4	139.14	128.09	99.44	149.14	121.77	
G28	102.28	115.87	146.5	91.7	117.66	108.93	83.92	127.48	102.28	
G29	85.85	96.56	123.8	76.88	100.72	92.88	70.7	107.94	85.85	
G30	71.79	80.23	104.64	64.28	85.71	79.39	59.56	92.08	71.79	
G31	60.27	66.74	88.16	54.09	73.11	67.68	50.45	78.39	60.27	
G32	50.64	55.98	74.76	44.79	62.06	58.29	42.81	67.35	50.64	
G33	42.76	46.54	63.53	37.66	53.43	50.64	36.72	57.91	42.76	
G34	36.15	39.22	54.51	32.24	45.55	43.7	31.53	50.36	36.15	
G35	30.73	33.42	46.72	27.75	39.6	38.42	26.71	43.52	30.73	
G36	25.58	28.22	41.01	23.55	34.45	33.42	22.94	38.23	25.58	

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Operators: QC01

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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	21.62	23.79	35.68	20.06	30.16	29.5	19.49	32.75	21.62	
G38	18.41	20.34	31.29	17.46	26.52	26.1	16.99	28.93	18.41	
G39	16.14	17.56	27.56	15.34	23.69	23.41	14.91	25.58	16.14	
G40	14.21	15.39	24.59	13.45	21.33	20.91	13.4	22.94	14.21	
G41	12.51	13.45	22.14	11.8	19.54	18.93	11.56	20.72	12.51	
G42	11.0	11.8	19.96	10.52	17.79	16.99	10.05	18.83	11.0	
G43	9.68	10.29	18.08	9.25	16.05	15.34	8.64	16.9	9.68	
G44	8.26	8.83	16.28	8.02	14.44	13.59	7.46	15.39	8.26	
G45	6.89	7.55	14.68	6.75	13.07	12.27	5.9	13.5	6.89	
G46	5.66	6.23	13.12	5.57	11.7	10.76	4.67	11.99	5.66	
G47	4.48	5.0	11.85	4.48	10.34	9.3	3.35	10.48	4.48	
G48	3.21	3.87	10.38	3.4	8.97	8.02	2.36	8.92	3.21	
G49	2.27	2.88	8.87	2.36	7.55	6.84	1.6	7.55	2.27	
G50	1.51	1.94	7.5	1.46	6.51	5.76	0.9	6.51	1.51	
G51	0.85	0.99	6.42	0.85	5.66	4.96	0.42	5.47	0.85	
G52	0.38	0.47	5.33	0.33	4.77	4.29	0.05	4.81	0.38	
G53	0.0	0.0	4.63	0.0	4.34	3.82	0.0	4.15	0.0	
G54	0.0	0.0	3.92	0.0	3.68	3.4	0.0	3.82	0.0	
G55	0.0	0.0	3.45	0.0	3.3	3.11	0.0	3.4	0.0	
G56	0.0	0.0	3.11	0.0	3.02	2.88	0.0	3.16	0.0	
G57	0.0	0.0	2.78	0.0	2.78	2.5	0.0	2.78	0.0	
G58	0.0	0.0	2.55	0.0	2.45	2.41	0.0	2.55	0.0	
G59	0.0	0.0	2.27	0.0	2.27	2.17	0.0	2.22	0.0	
G60	0.0	0.0	2.22	0.0	1.94	1.89	0.0	2.03	0.0	
G61	0.0	0.0	1.75	0.0	1.79	1.65	0.0	1.65	0.0	
G62	0.0	0.0	1.51	0.0	1.42	1.42	0.0	1.56	0.0	
G63	0.0	0.0	1.27	0.0	1.18	1.18	0.0	1.32	0.0	
G64	0.0	0.0	1.04	0.0	1.09	0.94	0.0	0.94	0.0	
G65	0.0	0.0	0.71	0.0	0.94	0.71	0.0	0.71	0.0	
G66	0.0	0.0	0.66	0.0	0.61	0.38	0.0	0.47	0.0	
G67	0.0	0.0	0.47	0.0	0.42	0.28	0.0	0.28	0.0	
G68	0.0	0.0	0.42	0.0	0.28	0.14	0.0	0.24	0.0	
G69	0.0	0.0	0.09	0.0	0.19	0.0	0.0	0.0	0.0	
G70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G71	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G72	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G73	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

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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Remarks: