

Report No.:

Test Time: 2024/10/26 15:57:50

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP104SCT095H124-2F-15°
Lamp Type:
Luminous Width: 90 mm
Luminous Length: 185 mm
Luminous Height: 80 mm

Voltage(V): 219.80 V
Current(A): 0.2390 A
Power(W): 50.99 W
Power Factor: 0.9680
Lamp Luminous Flux: 4219.07

Photometric Results

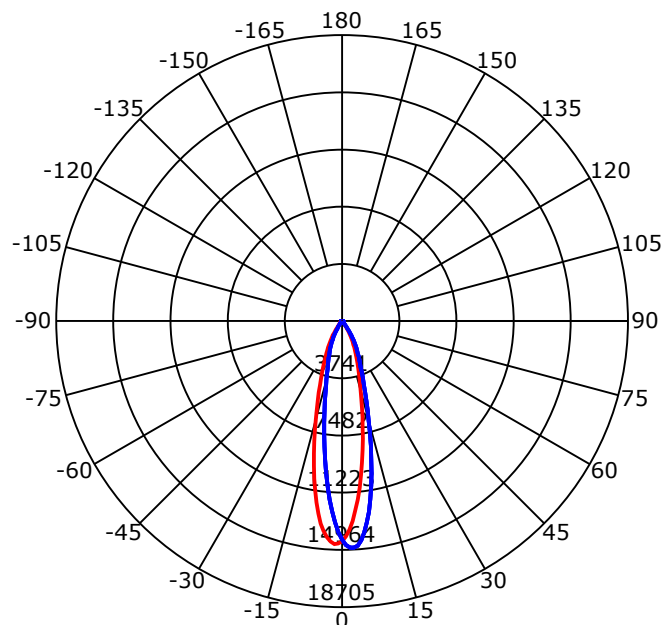
CIE Class: Direct
Luminaire Luminous Flux: 4219.074 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 82.74 lm/W
Beam Angle(50%) C0-180,C90-270: 24.8,23.2
Field Angle(10%) C0-180,C90-270: 58.2,57.0
S/MH C0-180,C90-270: 0.425,0.425

Max. Intensity: 14964.18 cd
Max.Intensity Angle: C=135 Gamma=2
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 14398.80 cd
Effective Luminous Flux: 3515.63 lm
ERP(ϕ use)(120deg): 4171.10 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 24.8 deg,23.2 deg

C0-180 — C90-270 —

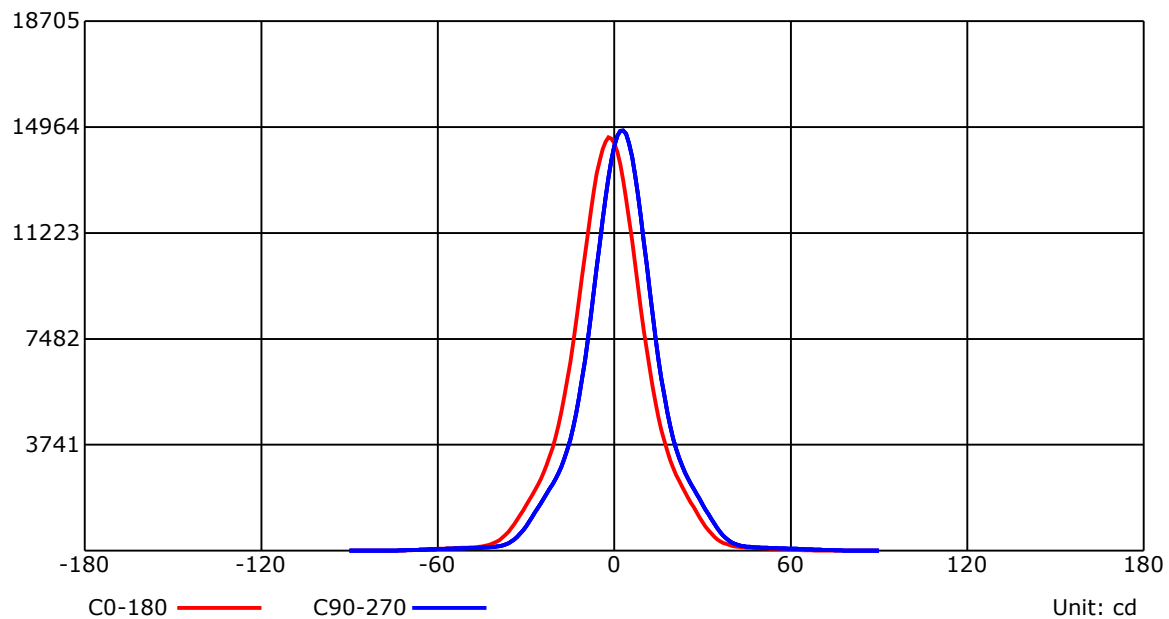
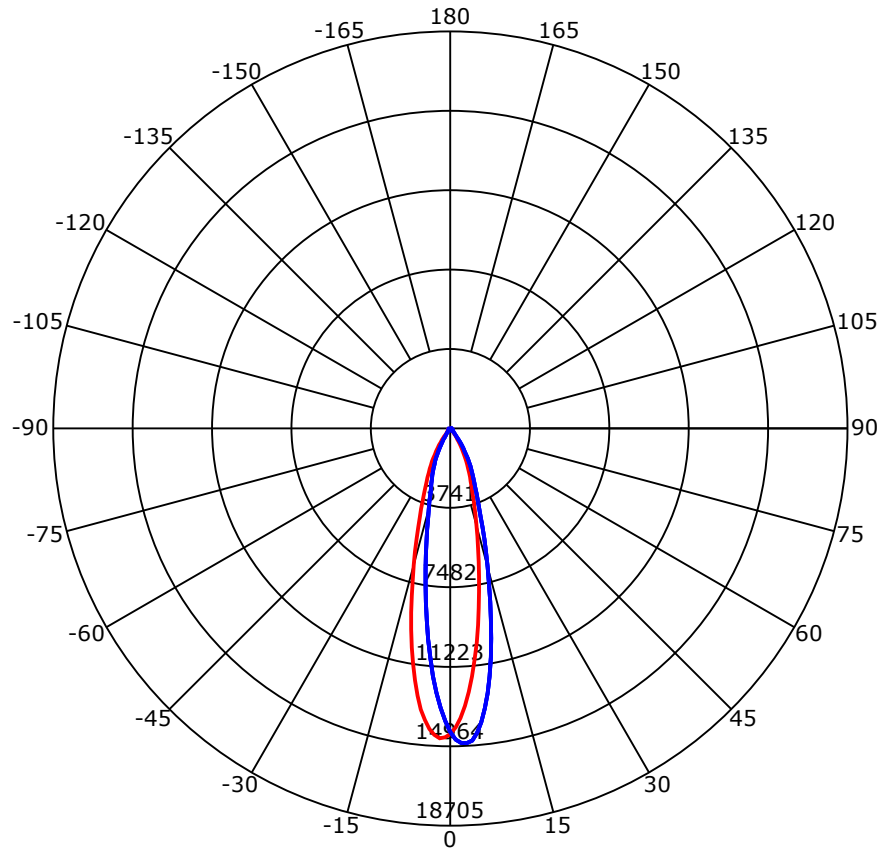
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/10/26 15:57:50

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks:

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Luminous Intensity Distribution Curve



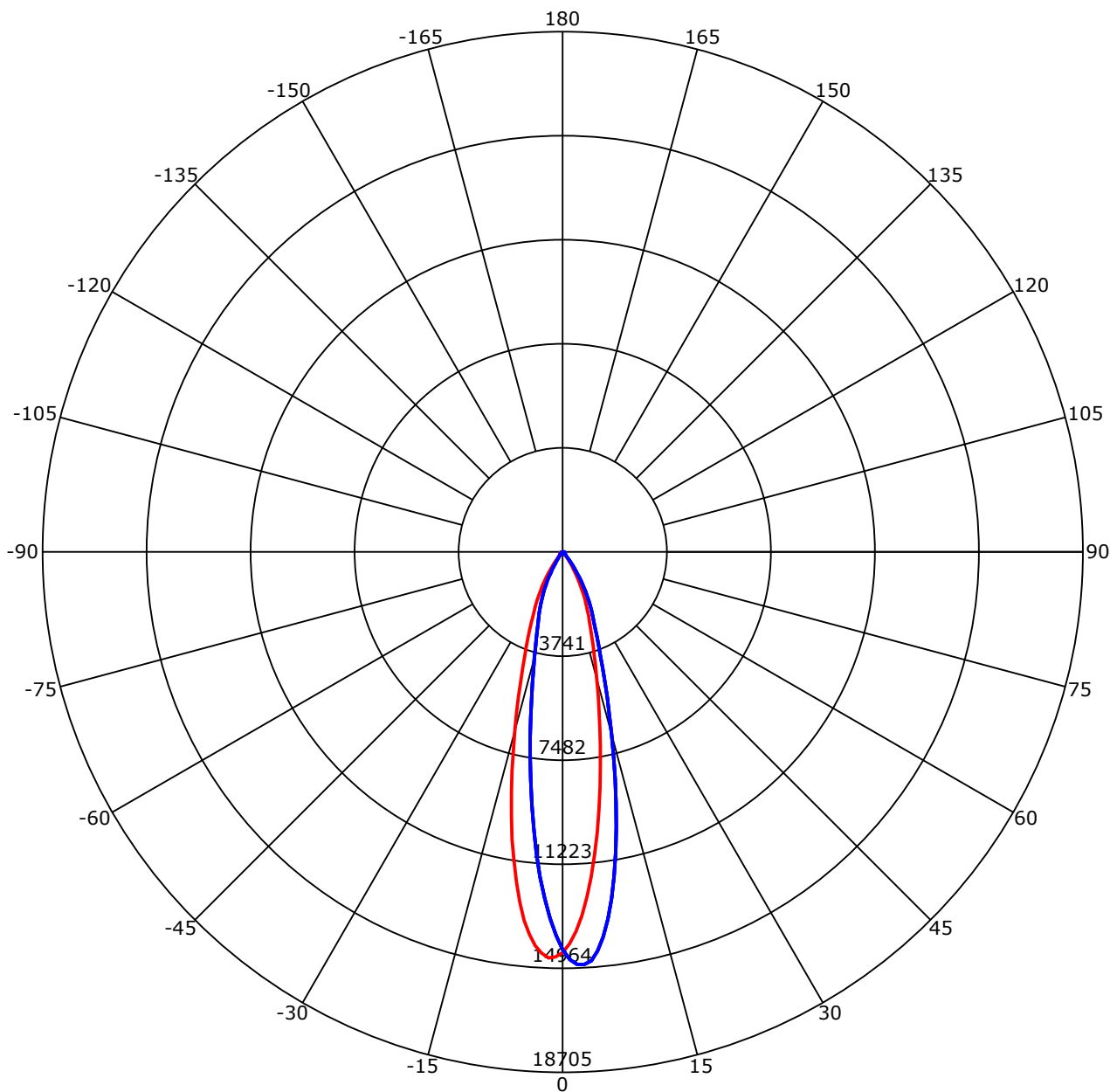
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Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

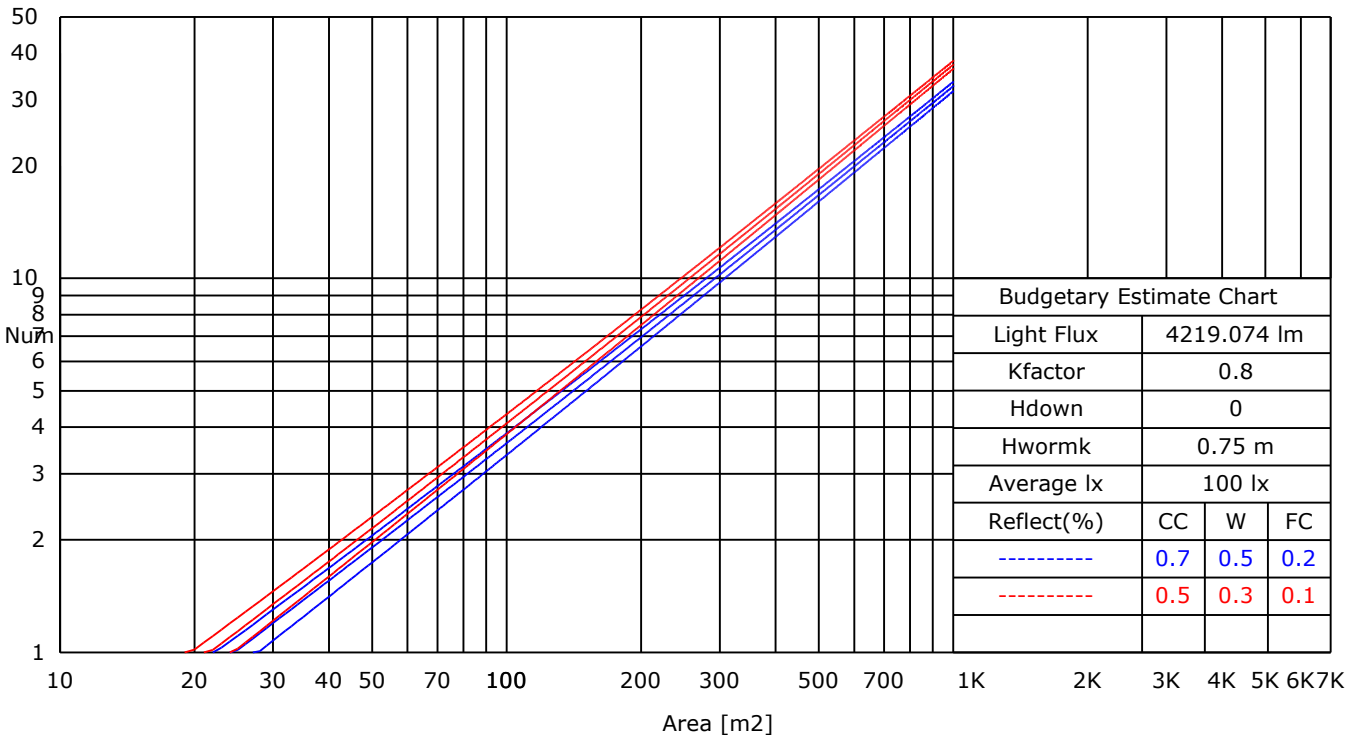
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Remarks:

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	0.93	0.90	0.87	0.92	0.89	0.86	0.89	0.86	0.82	0.85	0.82	0.78	0.80	0.76	0.73	0.67
2	0.88	0.86	0.84	0.88	0.85	0.82	0.86	0.82	0.79	0.82	0.78	0.75	0.78	0.74	0.70	0.65
3	0.85	0.83	0.81	0.85	0.82	0.80	0.83	0.79	0.76	0.80	0.76	0.72	0.76	0.72	0.68	0.63
4	0.82	0.80	0.79	0.82	0.79	0.77	0.80	0.76	0.74	0.77	0.73	0.70	0.74	0.69	0.66	0.62
5	0.80	0.78	0.77	0.79	0.77	0.75	0.77	0.74	0.71	0.75	0.71	0.68	0.72	0.68	0.64	0.60
6	0.77	0.76	0.75	0.77	0.74	0.73	0.75	0.72	0.70	0.73	0.69	0.66	0.70	0.66	0.62	0.58
7	0.75	0.74	0.73	0.75	0.73	0.71	0.73	0.70	0.68	0.71	0.67	0.64	0.69	0.64	0.61	0.57
8	0.74	0.72	0.71	0.73	0.71	0.69	0.71	0.68	0.66	0.70	0.66	0.63	0.67	0.63	0.59	0.56
9	0.72	0.70	0.70	0.71	0.69	0.68	0.70	0.67	0.65	0.68	0.64	0.61	0.66	0.61	0.58	0.55
10	0.70	0.69	0.68	0.70	0.68	0.67	0.68	0.65	0.63	0.66	0.63	0.60	0.64	0.60	0.57	0.54

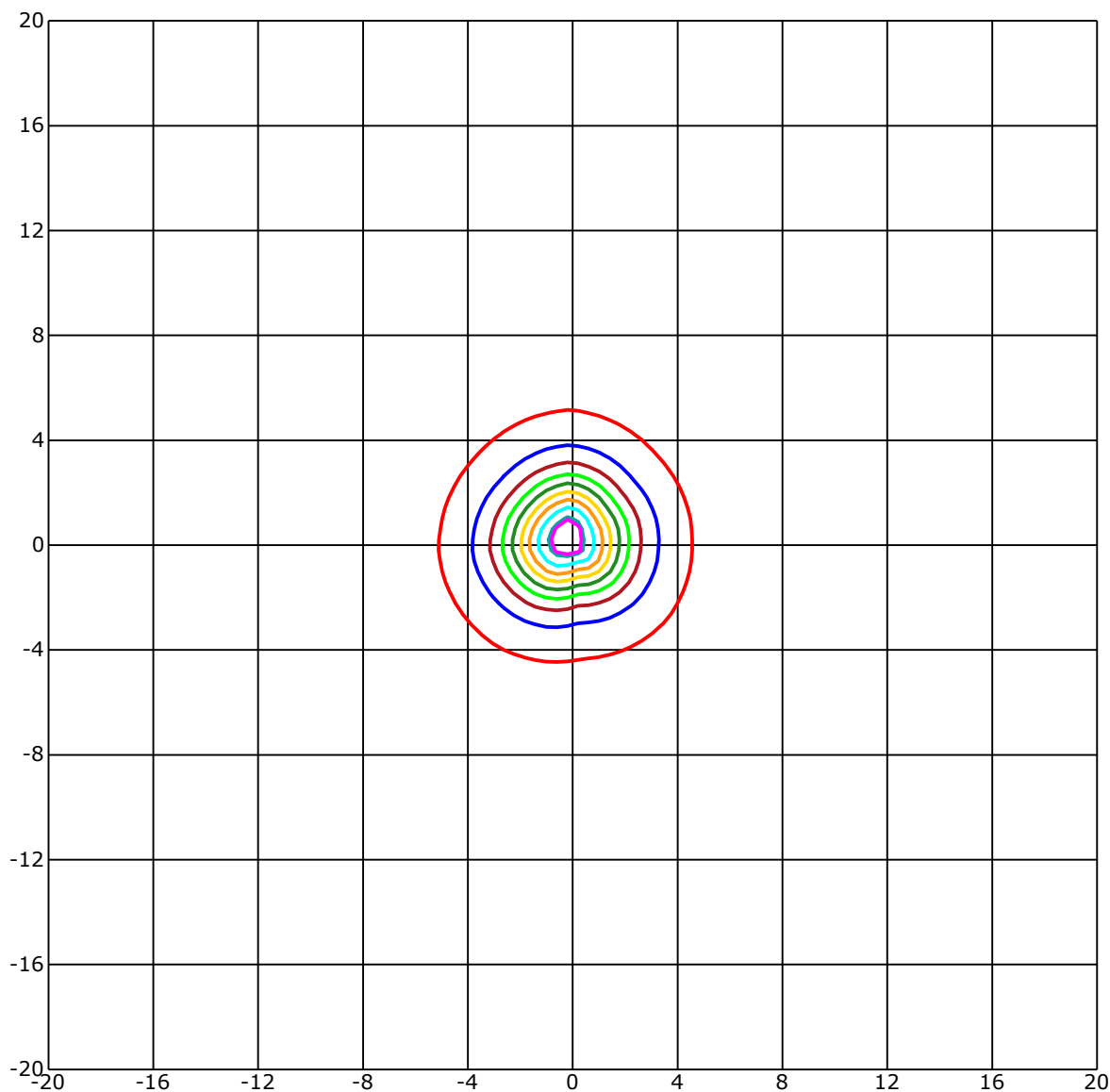
LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



Report No.:

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ISOLX DIAGRAM



C Range: 0 - 360 Deg
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Operators: QC01
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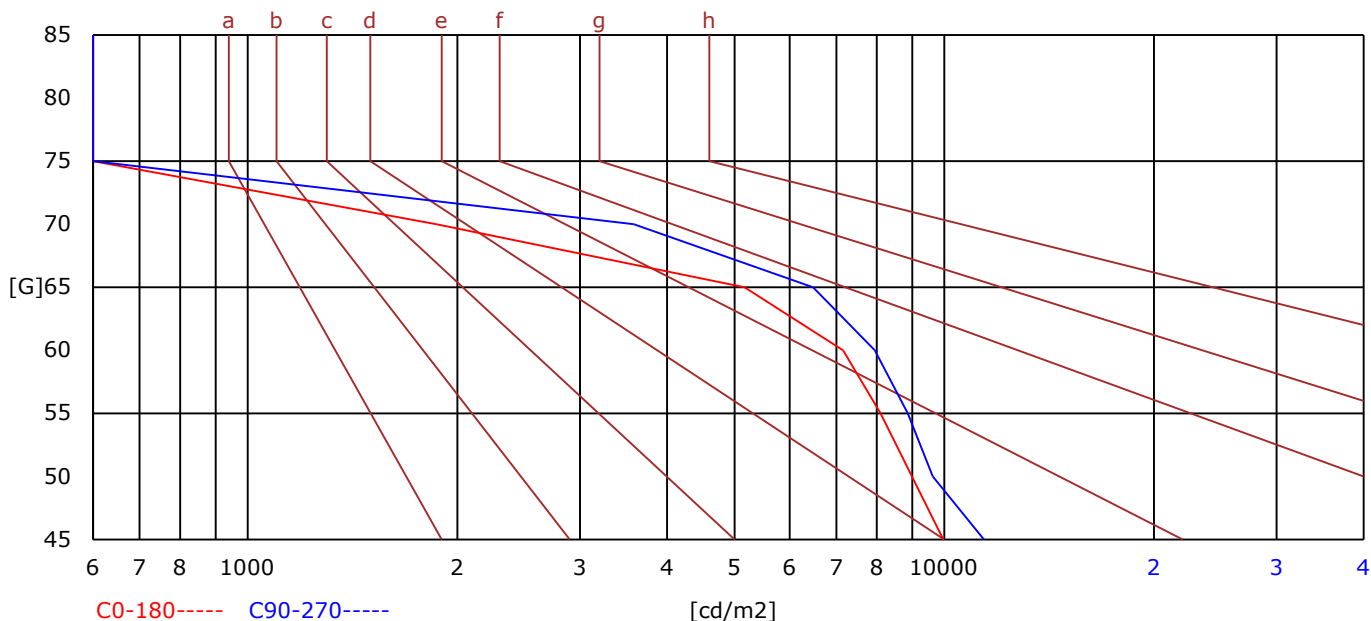
G Range: 0 - 90 Deg
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	9974	8987	8100	7158	5167	1865	0	0	0
C90	11404	9624	8862	7949	6479	3583	204	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



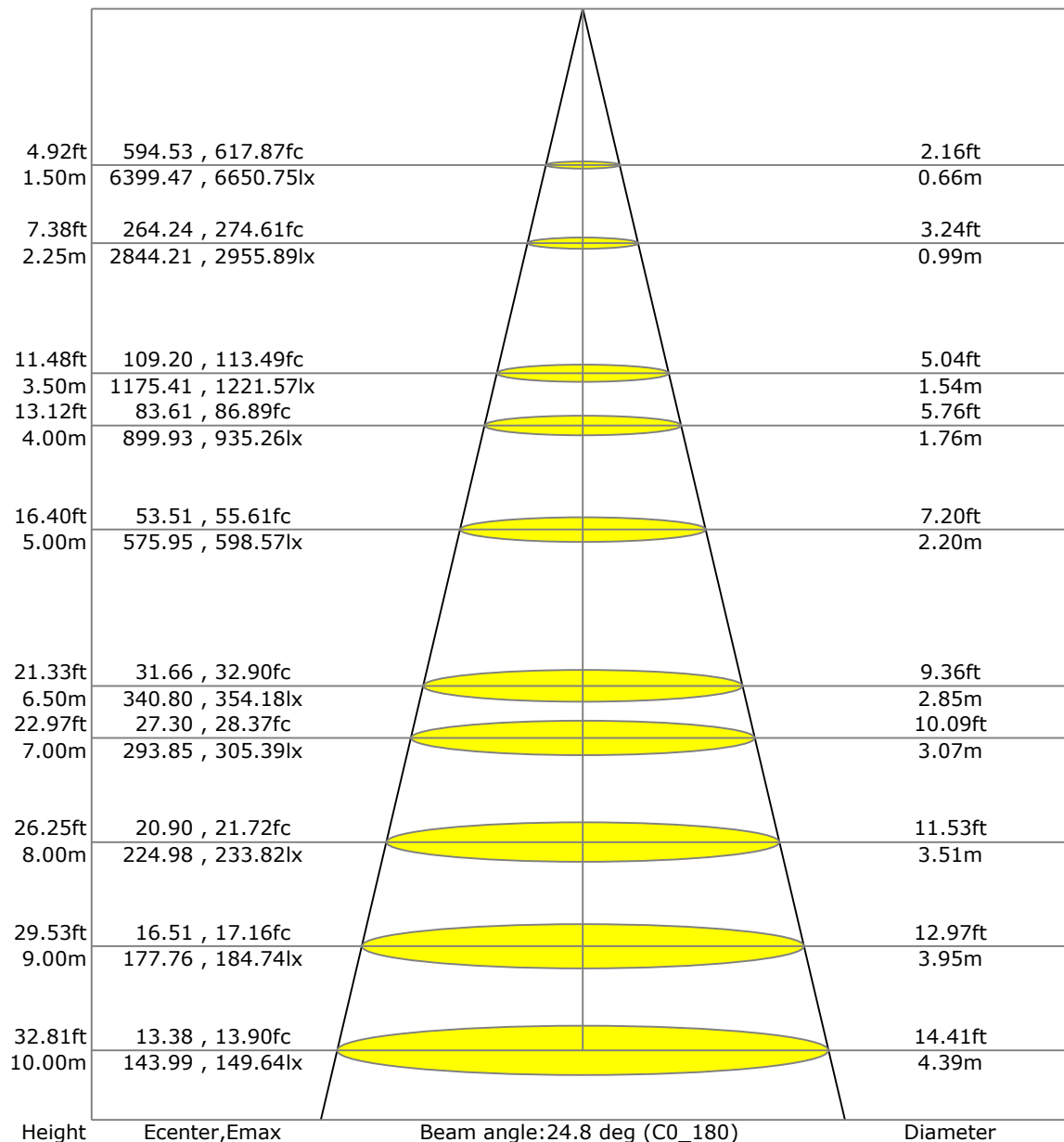
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LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2024/10/26 15:57:50

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

Test Distance: 6.81 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	6.00	6.06	6.20	6.24	6.49	6.29	6.35	6.49	6.54	6.78
3H	6.01	6.07	6.22	6.27	6.51	6.28	6.34	6.49	6.53	6.78
4H	6.00	6.06	6.21	6.26	6.51	6.27	6.32	6.48	6.52	6.77
6H	5.99	6.05	6.20	6.25	6.50	6.25	6.31	6.47	6.51	6.76
8H	5.98	6.04	6.20	6.24	6.49	6.24	6.30	6.46	6.50	6.76
12H	5.97	6.03	6.19	6.23	6.49	6.23	6.29	6.45	6.50	6.75
4H 2H	6.12	6.18	6.33	6.38	6.63	6.90	6.96	7.11	7.15	7.40
3H	6.13	6.19	6.35	6.39	6.65	6.88	6.94	7.10	7.15	7.40
4H	6.11	6.17	6.34	6.38	6.64	6.86	6.92	7.09	7.13	7.39
6H	6.09	6.15	6.33	6.37	6.63	6.84	6.90	7.08	7.12	7.38
8H	6.08	6.14	6.32	6.36	6.63	6.83	6.88	7.07	7.11	7.38
12H	6.07	6.12	6.31	6.35	6.62	6.81	6.87	7.06	7.10	7.37
8H 4H	6.10	6.16	6.32	6.36	6.61	6.91	6.97	7.13	7.17	7.43
6H	6.05	6.11	6.31	6.34	6.62	6.84	6.89	7.10	7.13	7.41
8H	6.04	6.09	6.30	6.33	6.61	6.82	6.88	7.09	7.12	7.40
12H	6.02	6.07	6.29	6.32	6.61	6.81	6.86	7.08	7.11	7.40
12H 4H	6.06	6.12	6.31	6.35	6.62	6.85	6.91	7.10	7.14	7.41
6H	6.04	6.09	6.30	6.33	6.61	6.82	6.88	7.09	7.12	7.40

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Remarks:

ZONAL LUMINOUS FLUX TABLE

[illegible]

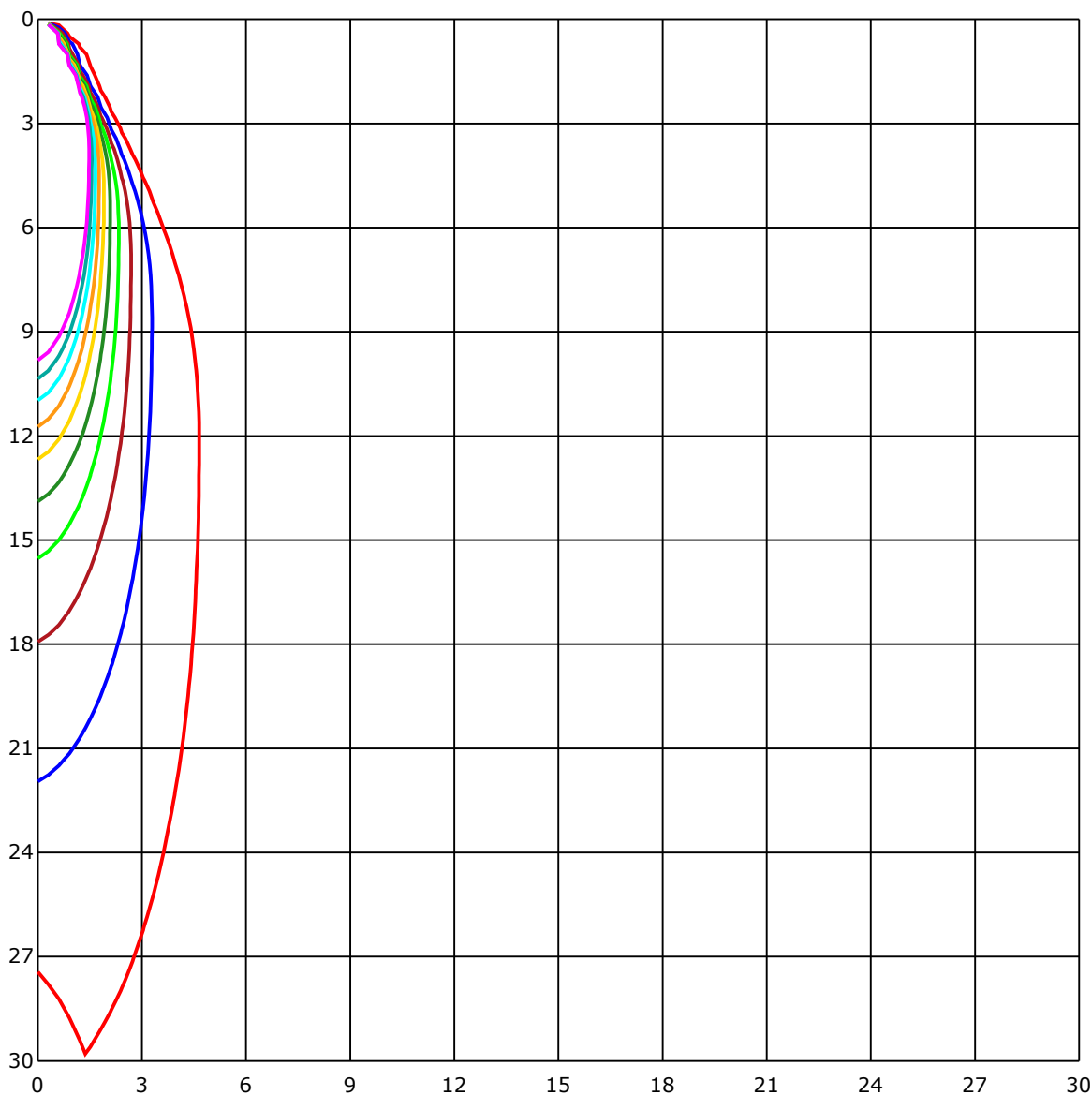
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SPACE ISOLX DIAGRAM



Unit of illumination:lx

149.354	74.677
134.418	59.741
119.483	44.806
104.548	29.871
89.612	14.935

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	14398.8	14472.87	14292.05	14756.55	14398.8	14472.87	14292.05	14756.55	14398.8	
G1	14083.35	14332.49	14657.03	14959.4	14553.75	14424.31	13787.99	14437.71	14083.35	
G2	13649.0	14066.71	14827.13	14964.18	14602.81	14235.05	13175.03	13947.33	13649.0	
G3	13091.28	13673.81	14841.19	14823.19	14444.39	13848.0	12465.89	13373.01	13091.28	
G4	12428.75	13133.39	14726.36	14500.04	14181.95	13400.56	11701.34	12687.43	12428.75	
G5	11729.72	12499.61	14397.32	14063.41	13790.21	12827.03	10855.25	11928.49	11729.72	
G6	10957.37	11763.9	13914.87	13476.94	13311.15	12149.52	9988.67	11109.53	10957.37	
G7	10157.52	10967.76	13291.81	12813.81	12683.08	11401.75	9138.23	10265.72	10157.52	
G8	9359.11	10158.08	12593.52	12009.74	11983.17	10632.97	8285.32	9414.26	9359.11	
G9	8554.72	9335.74	11815.33	11206.27	11224.27	9815.59	7482.74	8557.46	8554.72	
G10	7808.11	8549.39	10948.1	10371.55	10480.58	8999.93	6733.67	7780.43	7808.11	
G11	7083.63	7771.52	10074.23	9502.46	9646.0	8180.0	6041.97	7027.32	7083.63	
G12	6422.77	7035.12	9188.45	8653.5	8858.53	7412.29	5409.54	6327.88	6422.77	
G13	5794.0	6331.36	8364.81	7835.43	8088.22	6702.0	4848.67	5715.9	5794.0	
G14	5239.39	5702.36	7526.38	7062.01	7350.38	6046.1	4353.79	5134.67	5239.39	
G15	4722.57	5130.03	6764.0	6360.67	6654.79	5463.01	3929.96	4629.26	4722.57	
G16	4268.78	4612.8	6089.79	5711.87	6022.91	4934.37	3557.09	4191.19	4268.78	
G17	3872.22	4152.89	5469.37	5128.18	5438.85	4436.38	3244.05	3795.23	3872.22	
G18	3515.03	3756.84	4893.84	4606.96	4910.3	4012.97	2966.17	3452.98	3515.03	
G19	3192.81	3413.05	4398.08	4149.5	4433.42	3637.51	2735.54	3161.04	3192.81	
G20	2926.75	3122.46	3959.5	3754.1	4021.13	3311.44	2537.14	2900.04	2926.75	
G21	2686.2	2860.76	3605.88	3420.56	3647.57	3034.02	2358.5	2666.77	2686.2	
G22	2471.2	2629.43	3276.15	3115.96	3328.6	2790.22	2189.23	2466.93	2471.2	
G23	2259.58	2411.33	3007.63	2851.48	3038.19	2576.15	2021.21	2277.25	2259.58	
G24	2067.31	2217.2	2767.96	2613.06	2774.82	2383.78	1849.94	2086.51	2067.31	
G25	1881.62	2025.48	2559.45	2399.96	2540.44	2199.34	1681.74	1911.21	1881.62	
G26	1701.96	1842.89	2363.7	2202.35	2333.6	2024.55	1514.18	1740.31	1701.96	
G27	1525.17	1666.9	2173.79	2013.51	2130.01	1859.17	1348.52	1574.79	1525.17	
G28	1345.56	1494.01	1994.13	1833.8	1948.68	1688.6	1178.05	1398.24	1345.56	
G29	1172.81	1318.43	1819.06	1656.83	1778.85	1513.3	1017.82	1225.81	1172.81	
G30	1011.97	1141.36	1634.02	1480.97	1606.38	1346.62	863.71	1058.72	1011.97	
G31	852.67	977.7	1454.77	1314.25	1429.96	1185.47	724.67	899.79	852.67	
G32	716.51	823.5	1278.08	1139.09	1260.27	1030.06	599.36	753.38	716.51	
G33	597.74	687.94	1108.3	977.56	1098.0	881.66	492.0	627.65	597.74	
G34	493.21	566.07	948.11	828.93	945.66	744.94	398.83	517.28	493.21	
G35	401.66	466.17	794.14	691.33	801.15	623.62	325.93	424.48	401.66	
G36	332.24	378.57	655.48	569.13	673.29	519.18	264.48	352.6	332.24	

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Humidity: 60
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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	277.0	309.84	536.66	460.33	561.01	425.27	220.43	297.73	277.0	
G38	235.03	256.88	434.03	374.12	466.64	353.71	186.15	250.71	235.03	
G39	202.43	217.41	353.48	306.04	380.84	294.4	162.27	216.21	202.43	
G40	175.21	186.48	291.01	253.86	320.32	247.37	144.46	190.61	175.21	
G41	152.58	163.29	242.36	213.56	269.17	210.08	132.22	173.17	152.58	
G42	136.53	146.59	203.54	183.19	226.36	183.6	123.31	157.26	136.53	
G43	123.73	135.0	176.46	161.9	191.72	163.66	117.66	144.97	123.73	
G44	115.34	125.03	157.54	146.36	167.93	150.26	111.58	135.6	115.34	
G45	108.47	117.42	144.14	134.26	150.3	140.57	106.8	128.37	108.47	
G46	103.7	111.86	133.52	124.33	138.29	132.5	102.35	122.71	103.7	
G47	98.55	106.62	125.96	117.47	127.91	125.03	98.6	118.31	98.55	
G48	94.51	103.23	119.37	111.91	120.67	120.07	95.35	113.25	94.51	
G49	89.92	98.5	114.41	106.8	114.73	115.62	91.5	111.02	89.92	
G50	86.58	96.18	109.73	103.0	109.22	113.06	88.67	106.67	86.58	
G51	82.6	91.36	104.44	100.31	103.88	109.12	86.72	102.82	82.6	
G52	79.77	88.9	100.68	95.58	99.48	104.62	82.36	99.11	79.77	
G53	75.27	85.01	97.81	92.01	95.91	100.87	79.49	96.97	75.27	
G54	71.93	81.25	93.31	88.16	91.41	98.41	76.66	93.36	71.93	
G55	67.01	77.36	89.32	84.64	86.31	94.47	74.16	89.04	67.01	
G56	63.77	73.78	85.98	80.83	82.78	91.73	70.17	85.66	63.77	
G57	59.69	70.17	83.71	77.63	79.02	88.58	67.52	83.8	59.69	
G58	54.35	66.6	78.89	73.92	75.08	85.29	63.86	78.98	54.35	
G59	49.39	63.07	75.69	70.12	69.94	80.37	60.61	74.76	49.39	
G60	45.26	59.59	72.35	66.18	65.58	77.36	57.32	70.4	45.26	
G61	38.86	54.35	68.78	62.42	60.57	72.76	53.33	67.25	38.86	
G62	33.95	50.32	65.44	58.2	56.44	68.78	48.79	62.7	33.95	
G63	25.97	45.77	61.4	54.21	50.6	64.79	45.36	58.57	25.97	
G64	19.57	40.72	56.53	49.3	46.42	60.8	39.28	53.01	19.57	
G65	15.35	36.36	52.92	45.59	40.12	56.58	35.85	49.48	15.35	
G66	13.08	30.75	46.89	40.07	32.32	52.03	32.79	43.45	13.08	
G67	9.04	25.92	43.69	35.57	26.06	46.93	29.96	37.84	9.04	
G68	5.84	19.66	40.53	29.82	22.91	41.92	26.9	32.28	5.84	
G69	3.62	14.89	36.92	25.32	18.18	36.92	24.58	27.13	3.62	
G70	2.09	10.62	33.9	20.41	14.65	31.67	20.31	21.56	2.09	
G71	0.0	6.45	29.68	14.75	11.41	26.3	18.36	16.83	0.0	
G72	0.0	4.64	26.71	9.97	8.49	21.75	14.47	13.12	0.0	
G73	0.0	0.93	24.67	5.84	5.52	16.74	11.22	9.69	0.0	

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Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks:

Test Time: 2024/10/26 15:57:50

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: 2024/10/26 15:57:50

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks: