

Report No.:

Test Time: 2024/10/26 15:48:16

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP104SCT095H124-2F-24°
Lamp Type:
Luminous Width: 90 mm
Luminous Length: 185 mm
Luminous Height: 80 mm

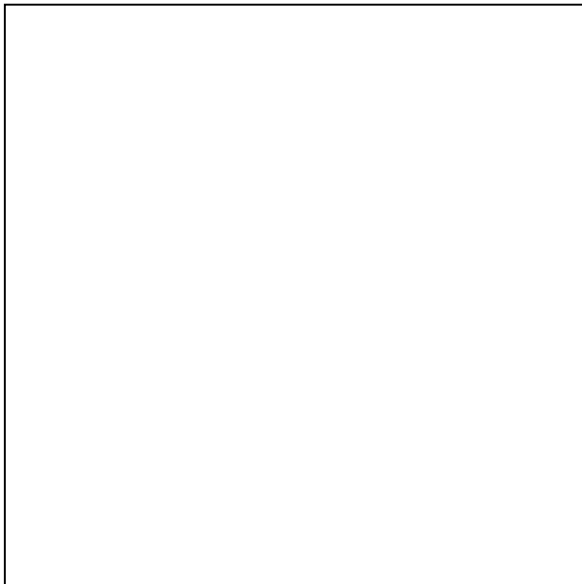
Voltage(V): 219.90 V
Current(A): 0.2400 A
Power(W): 51.35 W
Power Factor: 0.9680
Lamp Luminous Flux: 4410.35

Photometric Results

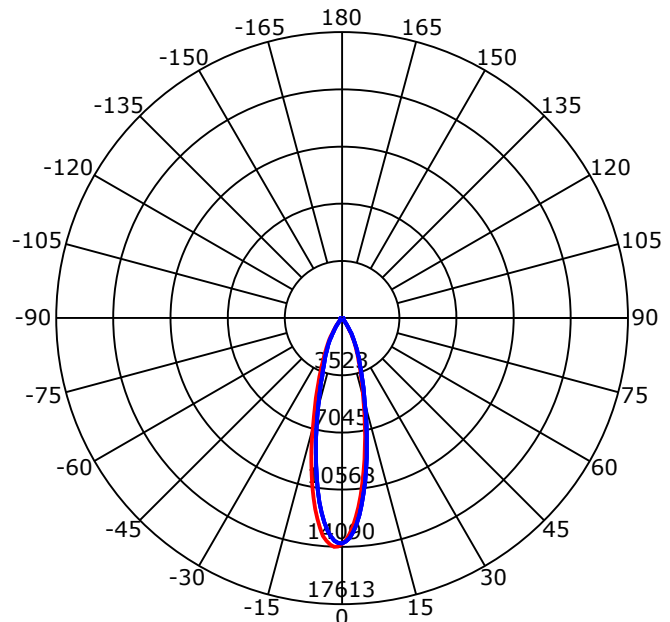
CIE Class: Direct
Luminaire Luminous Flux: 4410.354 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 85.89 lm/W
Beam Angle(50%) C0-180,C90-270: 26.4,25.7
Field Angle(10%) C0-180,C90-270: 59.6,59.1
S/MH C0-180,C90-270: 0.462,0.462

Max. Intensity: 14090.13 cd
Max.Intensity Angle: C=180 Gamma=2
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 13913.94 cd
Effective Luminous Flux: 3718.37 lm
ERP(ϕ use)(120deg): 4359.61 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 26.4 deg,25.7 deg

C0-180 — C90-270

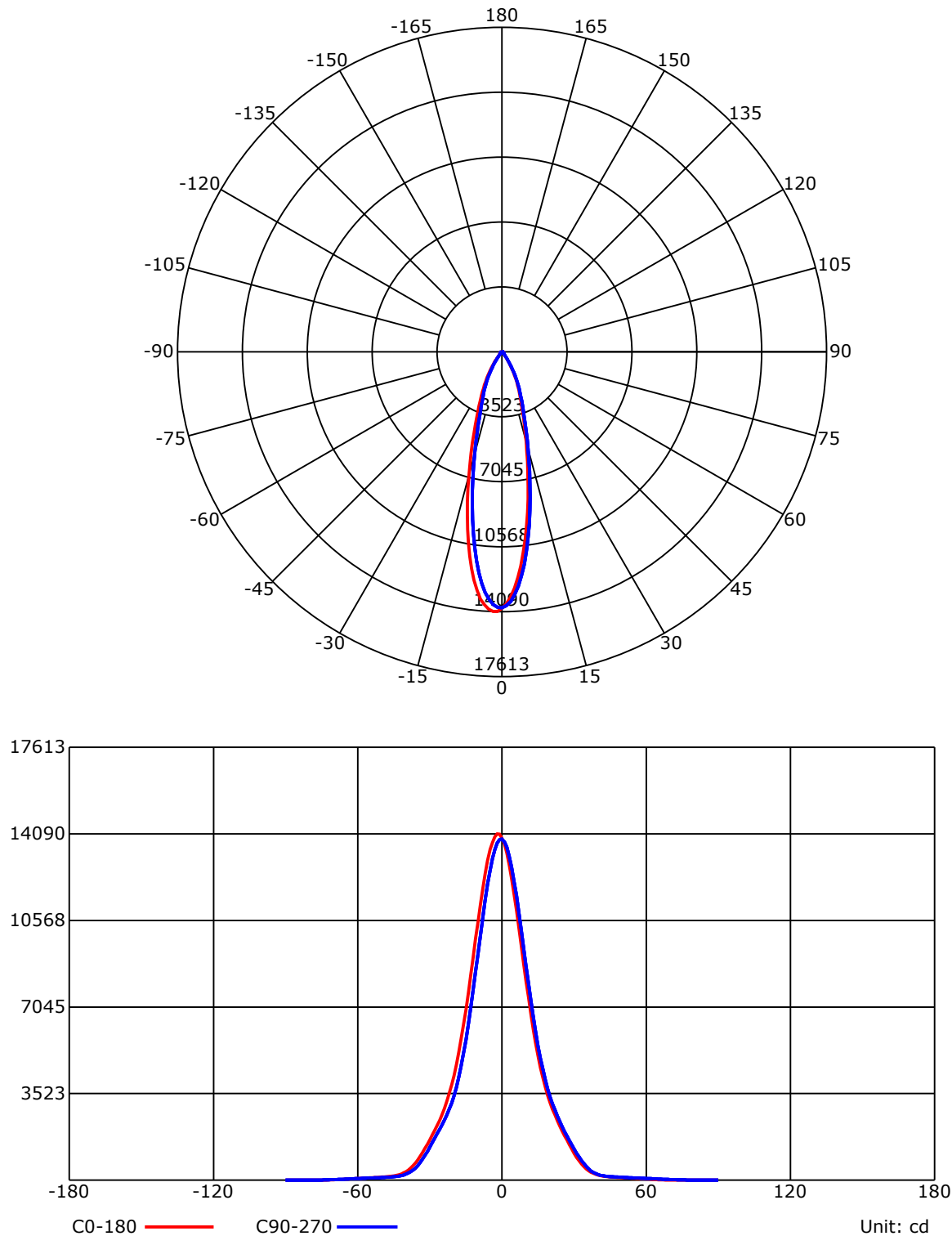
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/10/26 15:48:16

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



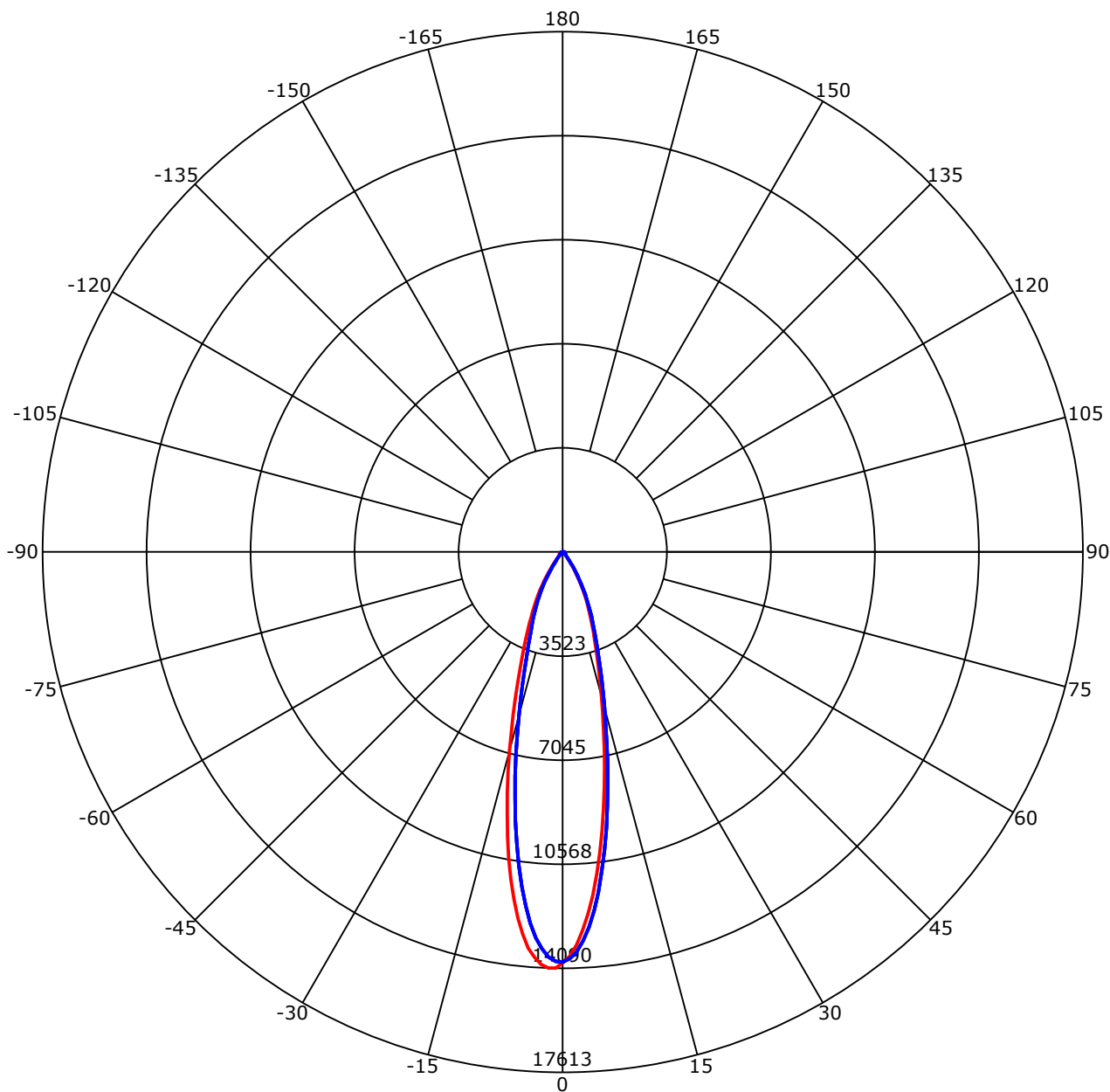
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Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

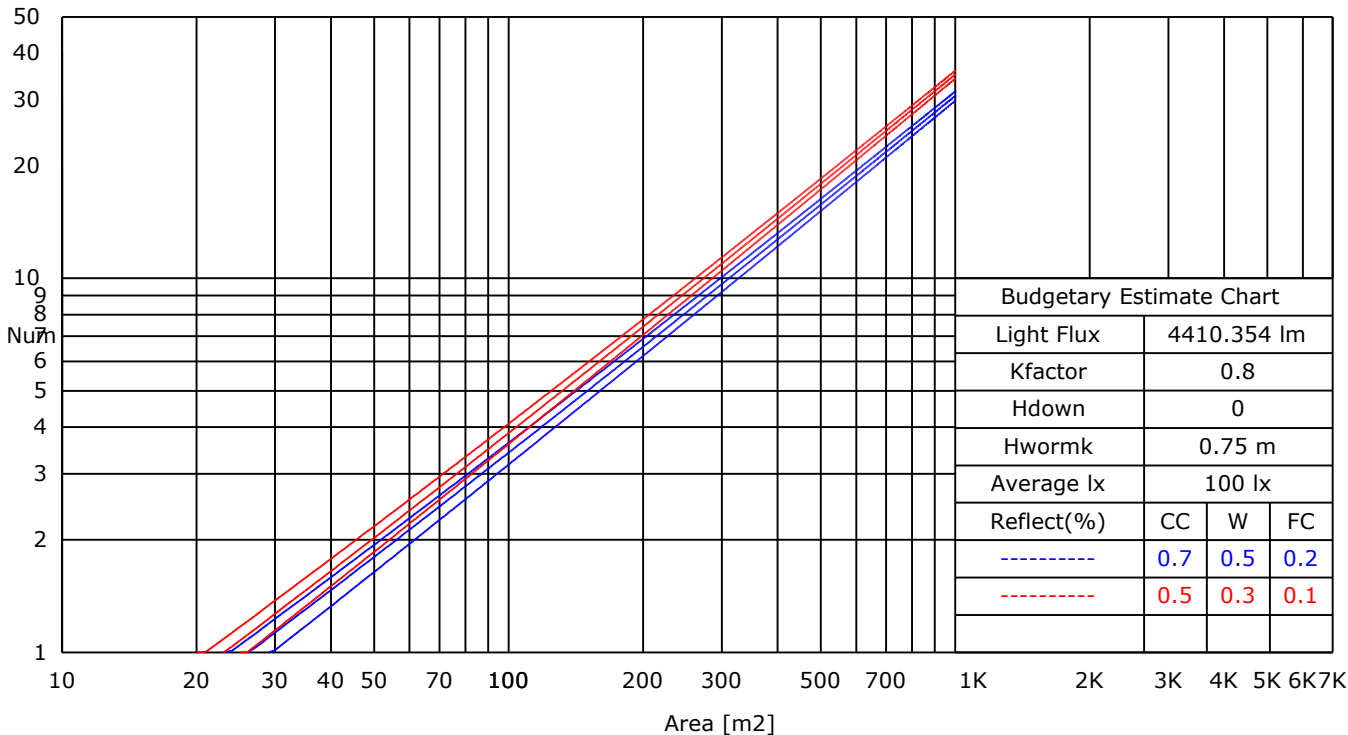
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UTILIZATION FACTORS TABLE

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	0.94	0.91	0.89	0.93	0.90	0.87	0.90	0.87	0.84	0.86	0.83	0.80	0.81	0.77	0.74	0.69
2	0.90	0.87	0.86	0.89	0.86	0.84	0.87	0.83	0.80	0.83	0.80	0.76	0.79	0.75	0.71	0.67
3	0.86	0.84	0.83	0.86	0.83	0.81	0.84	0.80	0.77	0.81	0.77	0.74	0.77	0.73	0.69	0.65
4	0.84	0.81	0.80	0.83	0.80	0.78	0.81	0.78	0.75	0.78	0.74	0.71	0.75	0.70	0.67	0.63
5	0.81	0.79	0.78	0.80	0.78	0.76	0.79	0.75	0.73	0.76	0.72	0.69	0.73	0.69	0.65	0.61
6	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	0.59
7	0.77	0.75	0.74	0.76	0.74	0.72	0.74	0.71	0.69	0.72	0.68	0.65	0.70	0.65	0.62	0.58
8	0.75	0.73	0.72	0.74	0.72	0.71	0.72	0.69	0.67	0.70	0.66	0.64	0.68	0.64	0.60	0.57
9	0.73	0.71	0.71	0.72	0.70	0.69	0.71	0.68	0.66	0.69	0.65	0.62	0.66	0.62	0.59	0.55
10	0.71	0.70	0.69	0.71	0.69	0.68	0.69	0.66	0.64	0.67	0.63	0.61	0.65	0.61	0.58	0.54

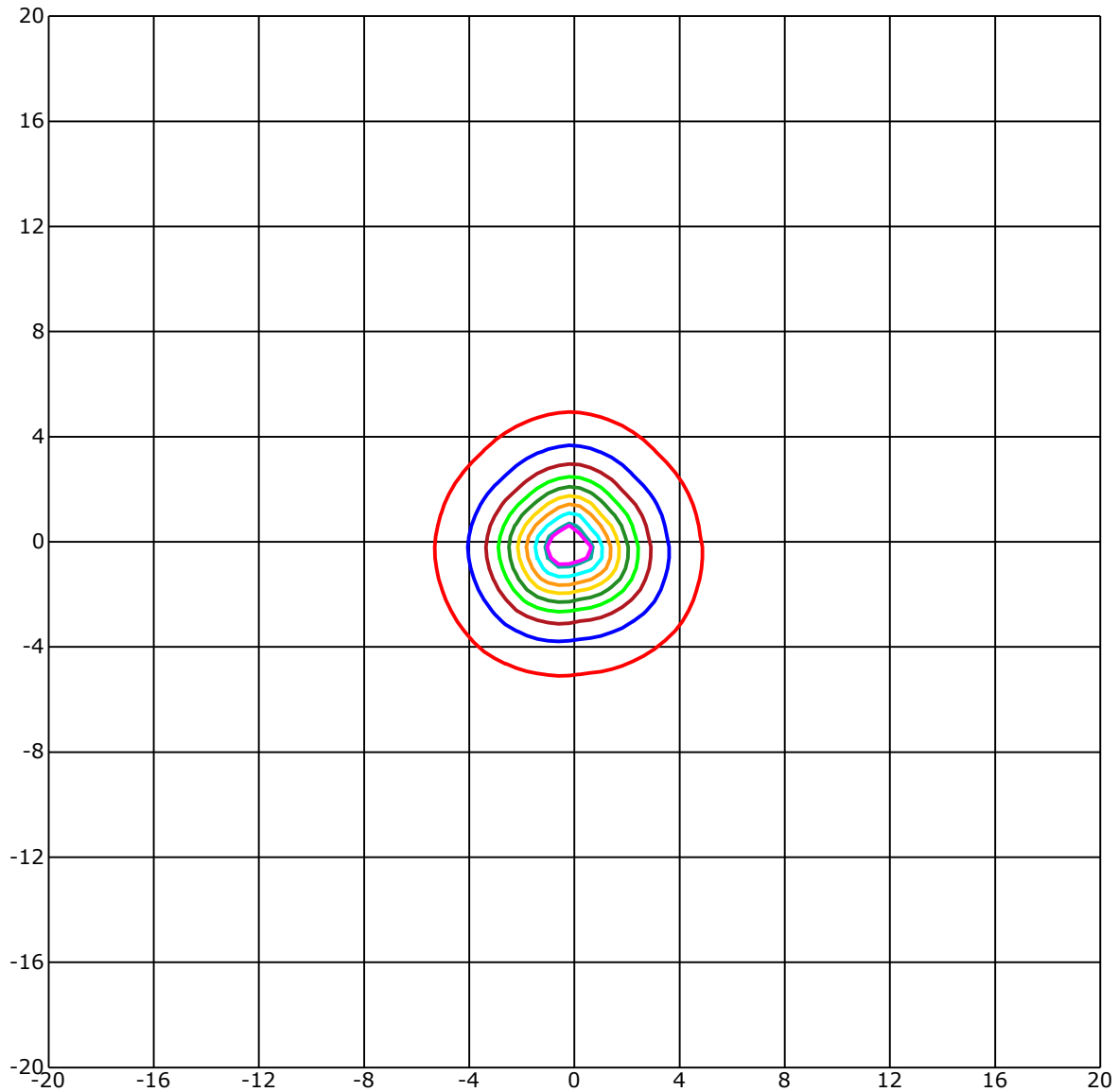
LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



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ISOLX DIAGRAM



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

129.488(92%Emax)	70.374(50%Emax)
126.673(90%Emax)	56.299(40%Emax)
112.598(80%Emax)	42.224(30%Emax)
98.524(70%Emax)	28.15(20%Emax)
84.449(60%Emax)	14.075(10%Emax)

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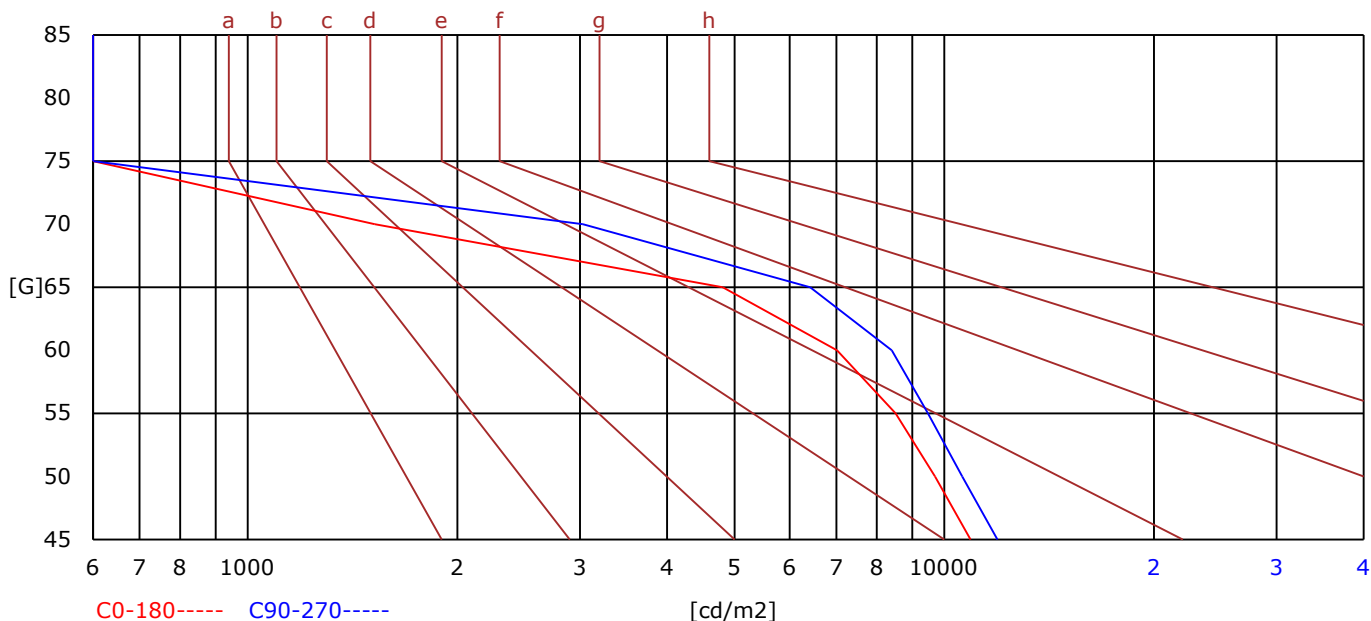
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	10911	9702	8518	7019	4811	1523	0	0	0
C90	11924	10608	9474	8406	6419	3030	32	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



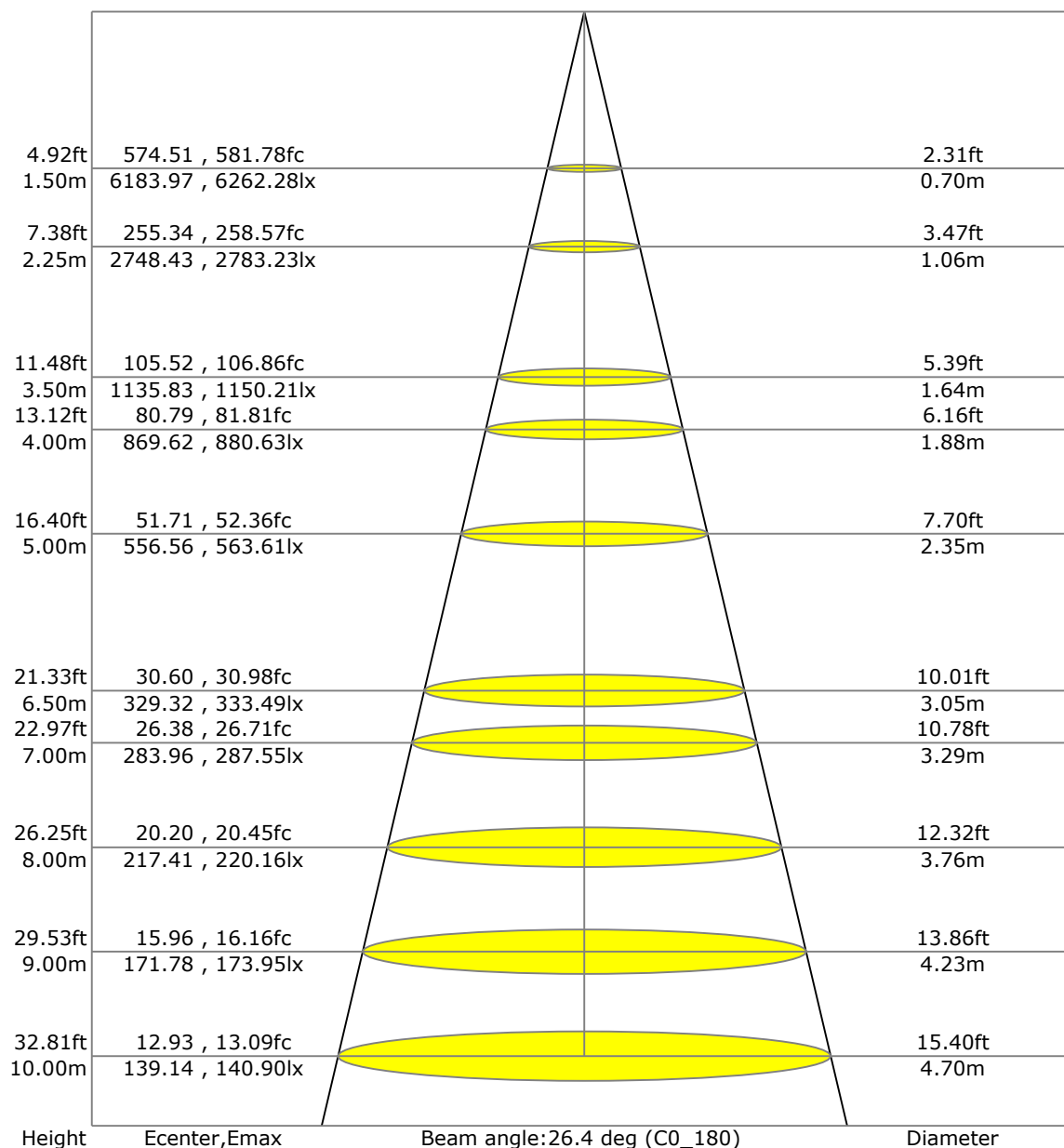
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LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg
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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	5.28	5.33	5.47	5.52	5.76	5.55	5.60	5.75	5.79	6.03
	3H	5.29	5.34	5.49	5.53	5.78	5.53	5.59	5.74	5.78	6.03
	4H	5.27	5.33	5.48	5.53	5.77	5.52	5.58	5.73	5.77	6.02
	6H	5.26	5.31	5.47	5.51	5.77	5.50	5.56	5.72	5.76	6.01
	8H	5.25	5.31	5.47	5.51	5.76	5.49	5.55	5.71	5.76	6.01
	12H	5.24	5.30	5.46	5.50	5.76	5.49	5.54	5.71	5.75	6.00
4H	2H	5.41	5.47	5.62	5.67	5.92	6.08	6.14	6.29	6.33	6.58
	3H	5.42	5.47	5.64	5.68	5.94	6.06	6.12	6.28	6.32	6.58
	4H	5.40	5.46	5.63	5.67	5.93	6.04	6.10	6.27	6.31	6.57
	6H	5.38	5.43	5.61	5.65	5.92	6.02	6.07	6.25	6.29	6.56
	8H	5.36	5.42	5.61	5.65	5.91	6.00	6.06	6.25	6.29	6.55
	12H	5.35	5.40	5.60	5.64	5.91	5.99	6.04	6.24	6.28	6.55
8H	4H	5.39	5.45	5.61	5.65	5.90	6.07	6.12	6.29	6.33	6.58
	6H	5.34	5.39	5.59	5.63	5.90	5.99	6.04	6.25	6.28	6.56
	8H	5.32	5.37	5.58	5.62	5.90	5.98	6.03	6.24	6.27	6.55
	12H	5.30	5.35	5.57	5.61	5.89	5.96	6.01	6.23	6.26	6.54
12H	4H	5.35	5.40	5.60	5.64	5.91	6.00	6.06	6.25	6.29	6.56
	6H	5.32	5.37	5.58	5.62	5.90	5.98	6.03	6.24	6.27	6.55

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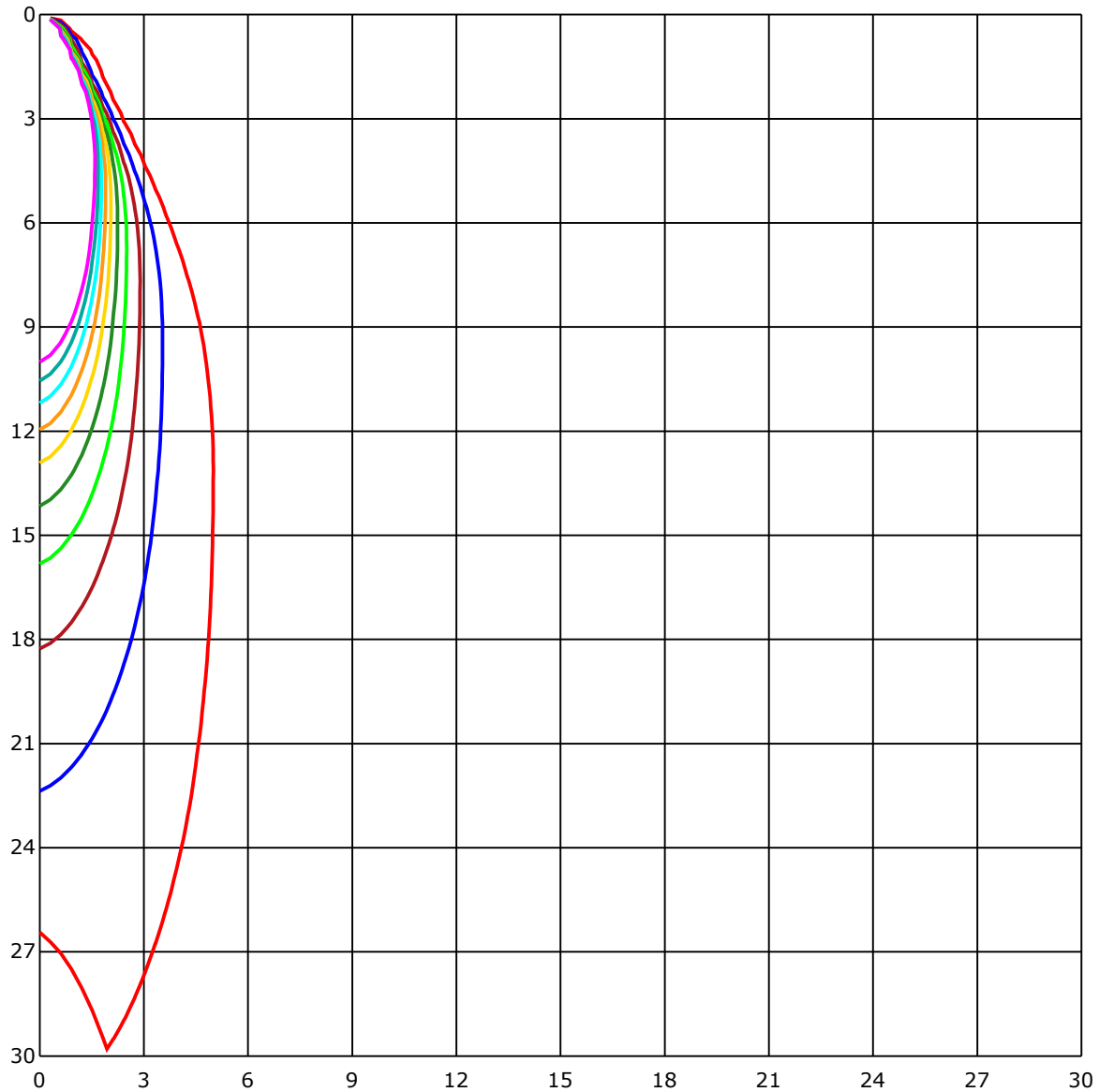
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Humidity: 60
Test Distance: 6.81 m
Remarks:

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SPACE ISOLX DIAGRAM



Unit of illumination:lx

139.032	69.516
125.129	55.613
111.226	41.71
97.322	27.806
83.419	13.903

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	13913.94	13610.23	13879.58	13933.24	13913.94	13610.23	13879.58	13933.24	13913.94	
G1	13672.79	13251.04	13764.01	13793.88	14081.22	13834.22	13851.29	13895.39	13672.79	
G2	13304.51	12800.17	13550.4	13552.12	14090.13	13943.81	13720.74	13785.25	13304.51	
G3	12827.63	12230.95	13178.05	13199.47	13972.47	13956.47	13446.98	13544.46	12827.63	
G4	12270.56	11609.0	12734.37	12766.69	13742.77	13809.5	13089.84	13174.71	12270.56	
G5	11664.24	10944.9	12178.36	12219.55	13461.96	13563.15	12606.14	12689.43	11664.24	
G6	10965.81	10221.89	11578.26	11585.07	13000.2	13199.15	12039.42	12139.5	10965.81	
G7	10257.84	9475.33	10871.95	10892.35	12476.75	12775.83	11404.76	11498.17	10257.84	
G8	9538.92	8751.68	10179.14	10228.76	11869.17	12184.95	10685.19	10821.35	9538.92	
G9	8813.55	8048.57	9448.2	9467.26	11228.07	11570.0	9961.31	10092.13	8813.55	
G10	8108.72	7377.19	8721.91	8735.22	10524.41	10885.91	9233.81	9366.21	8108.72	
G11	7419.57	6727.78	7987.73	8008.36	9816.71	10164.62	8467.12	8620.34	7419.57	
G12	6748.09	6115.8	7301.64	7325.52	9053.96	9430.9	7744.67	7917.93	6748.09	
G13	6130.92	5542.41	6642.31	6650.15	8361.66	8709.85	7032.38	7226.37	6130.92	
G14	5562.26	5026.8	6026.25	6021.1	7629.42	7962.41	6363.59	6581.6	5562.26	
G15	5059.77	4570.18	5450.49	5444.23	6955.81	7286.29	5717.62	5983.86	5059.77	
G16	4583.63	4150.38	4961.04	4925.42	6316.8	6612.86	5160.04	5422.9	4583.63	
G17	4159.24	3766.76	4507.48	4459.29	5756.94	5982.61	4642.76	4889.76	4159.24	
G18	3778.96	3431.37	4079.01	4027.95	5194.49	5382.6	4185.72	4420.62	3778.96	
G19	3440.09	3134.7	3704.06	3654.21	4699.99	4858.64	3777.47	4010.79	3440.09	
G20	3150.05	2871.14	3388.05	3339.45	4254.59	4383.7	3436.84	3650.08	3150.05	
G21	2887.84	2635.83	3111.47	3049.51	3873.84	3969.33	3135.07	3341.44	2887.84	
G22	2652.99	2401.77	2851.81	2792.12	3513.82	3601.85	2877.82	3064.25	2652.99	
G23	2421.85	2195.12	2613.94	2547.9	3202.18	3280.32	2646.45	2809.14	2421.85	
G24	2208.62	1993.8	2397.83	2333.6	2915.06	2996.04	2445.04	2587.46	2208.62	
G25	2010.03	1805.47	2188.4	2126.53	2666.16	2748.02	2253.55	2372.37	2010.03	
G26	1817.48	1619.64	1983.18	1930.64	2435.77	2527.64	2071.39	2176.66	1817.48	
G27	1637.08	1439.42	1793.64	1744.85	2217.98	2329.94	1889.36	1984.62	1637.08	
G28	1444.29	1266.53	1616.02	1575.12	2026.82	2130.38	1707.24	1800.0	1444.29	
G29	1265.23	1101.06	1439.75	1400.93	1840.62	1942.19	1532.41	1608.97	1265.23	
G30	1092.06	937.03	1265.7	1233.42	1652.98	1754.92	1355.2	1424.63	1092.06	
G31	932.72	794.79	1099.3	1069.9	1475.97	1581.61	1178.05	1243.95	932.72	
G32	787.51	667.49	950.48	917.97	1298.67	1404.32	1015.96	1070.82	787.51	
G33	663.97	558.46	806.06	781.58	1135.33	1235.92	861.71	909.81	663.97	
G34	554.06	461.58	682.1	656.55	978.54	1067.81	721.75	767.85	554.06	
G35	457.18	383.34	565.42	545.24	834.35	910.97	598.53	637.11	457.18	
G36	384.32	322.45	466.54	446.93	705.01	764.05	497.75	533.97	384.32	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	324.08	270.84	379.91	369.25	590.55	639.39	405.47	445.4	324.08	
G38	275.57	230.67	314.34	305.43	493.67	534.58	340.63	374.9	275.57	
G39	241.43	202.76	265.46	255.25	411.82	446.23	285.86	321.62	241.43	
G40	209.34	180.31	229.14	218.99	348.66	376.43	245.56	280.16	209.34	
G41	183.79	164.87	199.0	190.74	298.75	320.41	210.41	246.12	183.79	
G42	164.77	151.7	178.78	172.15	252.52	276.17	182.49	220.47	164.77	
G43	150.35	142.84	164.68	157.63	215.93	241.25	160.28	200.25	150.35	
G44	139.41	135.23	154.66	148.03	191.35	215.0	147.34	182.54	139.41	
G45	130.6	128.46	145.39	140.38	172.98	197.52	137.69	167.88	130.6	
G46	124.15	122.8	138.2	132.54	159.12	179.24	129.48	158.56	124.15	
G47	118.35	118.63	131.52	126.51	149.28	166.44	123.17	147.94	118.35	
G48	110.79	114.6	127.16	121.74	140.66	155.45	117.1	142.14	110.79	
G49	105.09	108.94	120.62	117.42	132.73	147.75	111.86	134.44	105.09	
G50	99.71	103.84	115.29	113.53	125.59	140.19	107.82	128.88	99.71	
G51	96.0	100.22	110.19	108.66	119.37	133.52	102.21	123.55	96.0	
G52	89.32	95.07	105.69	104.86	113.95	128.14	98.36	119.88	89.32	
G53	85.05	90.76	101.42	99.29	109.77	124.71	93.82	113.9	85.05	
G54	79.58	85.8	95.81	96.28	102.95	117.56	90.8	109.73	79.58	
G55	74.39	81.34	91.36	90.48	97.58	112.93	85.93	104.25	74.39	
G56	68.73	76.75	87.65	87.05	91.82	107.5	82.73	99.29	68.73	
G57	63.77	72.44	83.71	81.81	88.81	103.05	78.42	94.0	63.77	
G58	58.62	67.94	79.12	77.77	82.04	97.67	74.34	89.32	58.62	
G59	54.12	63.35	74.99	73.09	76.24	93.49	70.45	84.91	54.12	
G60	47.58	58.43	70.96	69.98	71.42	88.95	66.04	79.86	47.58	
G61	42.02	53.33	67.62	64.09	66.27	83.89	61.77	75.69	42.02	
G62	35.71	48.6	62.75	60.24	60.43	79.12	57.88	69.84	35.71	
G63	28.24	43.96	57.88	54.54	54.91	74.9	53.75	64.93	28.24	
G64	21.24	38.21	53.19	50.55	49.44	69.24	49.72	61.08	21.24	
G65	17.72	33.85	47.21	45.17	44.38	64.56	45.17	54.35	17.72	
G66	13.87	29.31	42.43	40.25	34.87	59.96	39.74	49.16	13.87	
G67	10.43	23.23	38.72	33.62	28.52	55.42	35.71	44.01	10.43	
G68	7.7	17.48	35.43	28.75	23.7	49.3	32.97	37.66	7.7	
G69	4.87	13.45	31.21	23.47	21.24	43.87	28.75	31.4	4.87	
G70	2.04	8.67	27.18	17.25	17.07	37.94	26.3	26.06	2.04	
G71	0.7	5.61	24.02	12.57	13.68	32.09	22.49	19.66	0.7	
G72	0.0	2.64	21.33	9.0	9.83	25.83	18.83	16.28	0.0	
G73	0.0	0.28	16.65	5.47	7.84	21.33	15.4	12.75	0.0	

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

Test Time: 2024/10/26 15:48:16

Remarks: