

Report No.:

Test Time: 2025/8/1 18:14:28

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP104SCT095H124-2F-EB-24°
Lamp Type:
Luminous Width: 90 mm
Luminous Length: 185 mm
Luminous Height: 70 mm

Voltage(V): 219.70 V
Current(A): 0.2250 A
Power(W): 47.97 W
Power Factor: 0.9660
Lamp Luminous Flux: 3141.91

Photometric Results

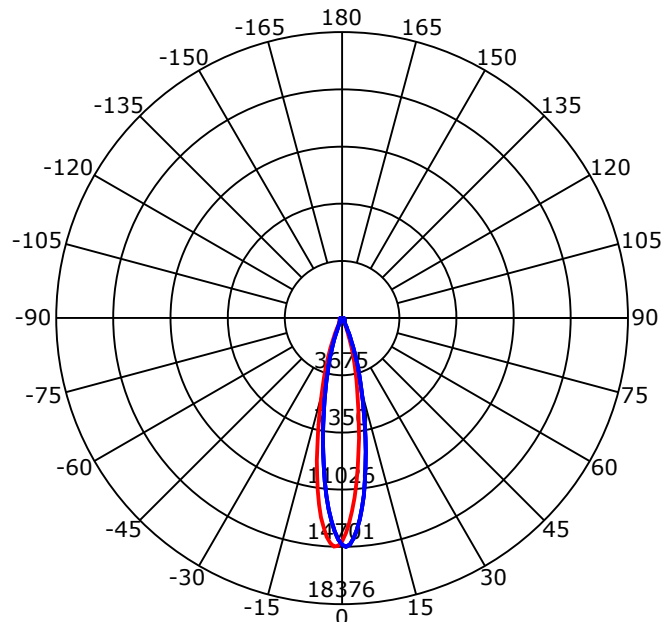
CIE Class: Direct
Luminaire Luminous Flux: 3141.908 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 65.50 lm/W
Beam Angle(50%) C0-180,C90-270: 20.6,21.1
Field Angle(10%) C0-180,C90-270: 42.0,42.5
S/MH C0-180,C90-270: 0.389,0.389

Max. Intensity: 14700.70 cd
Max.Intensity Angle: C=90 Gamma=1
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 14344.93 cd
Effective Luminous Flux: 2250.66 lm
ERP(ϕ use)(120deg): 2981.47 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 20.6 deg,21.1 deg

C0-180 — C90-270 —

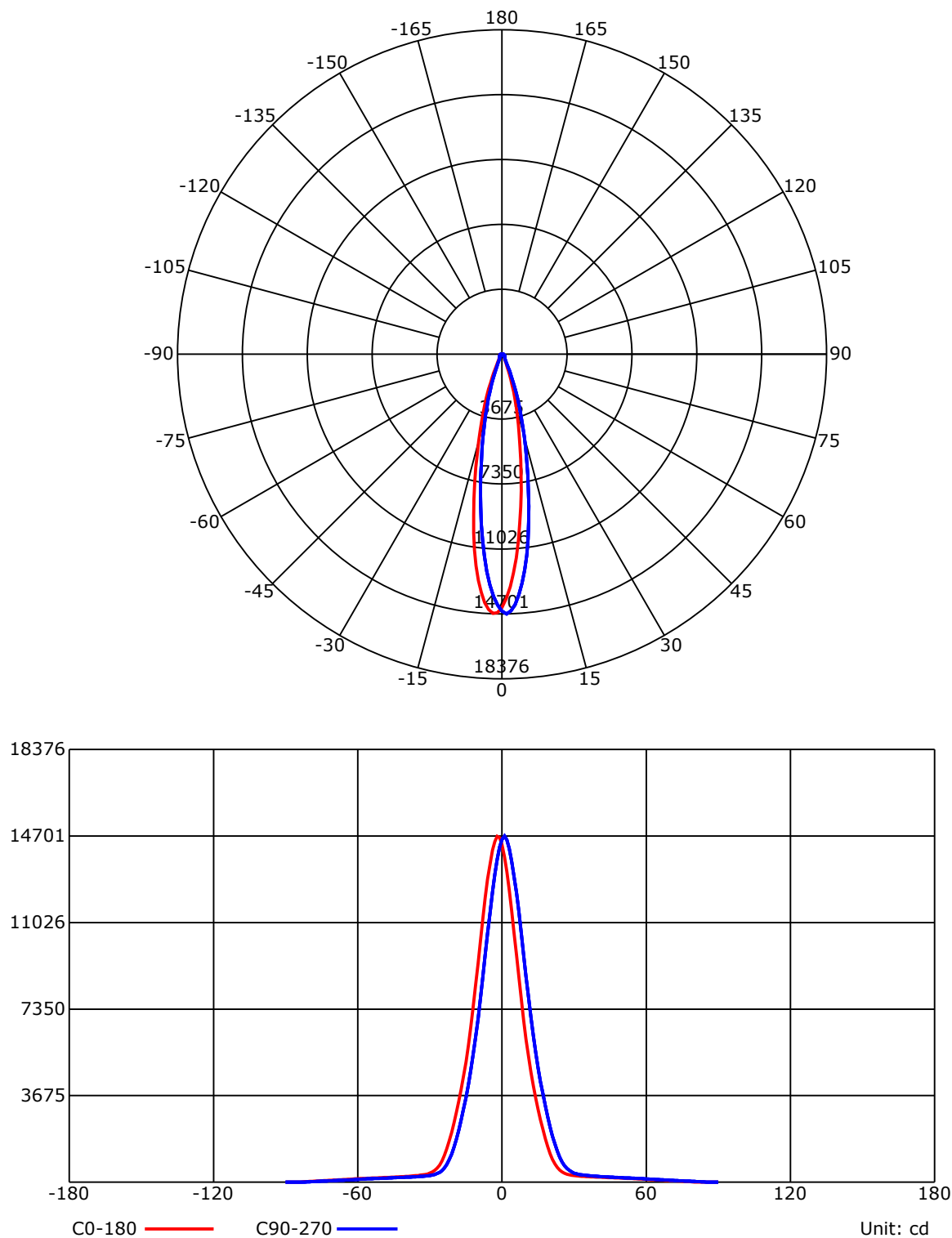
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/8/1 18:14:28

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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Luminous Intensity Distribution Curve



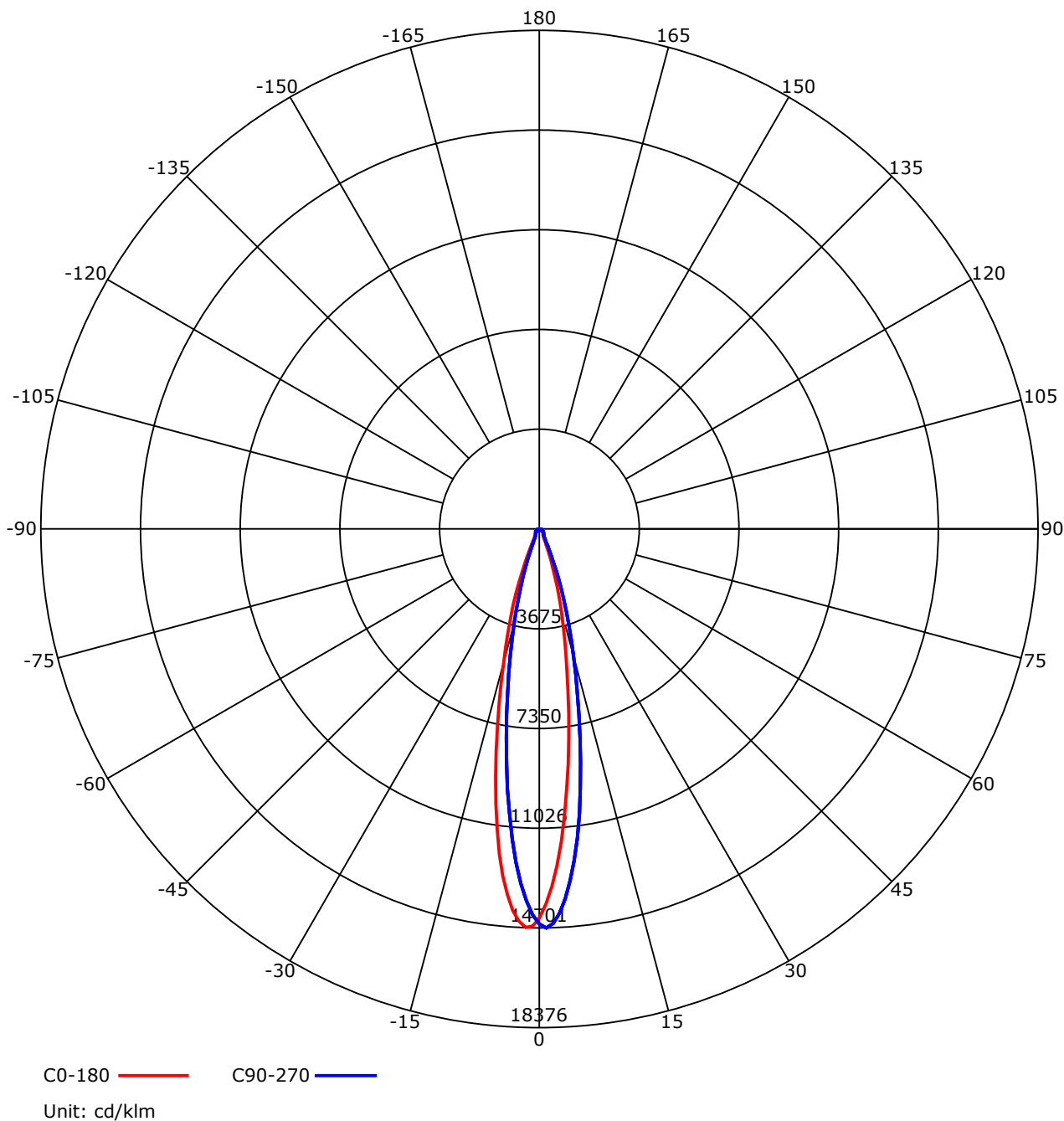
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Luminous Intensity Distribution Curve



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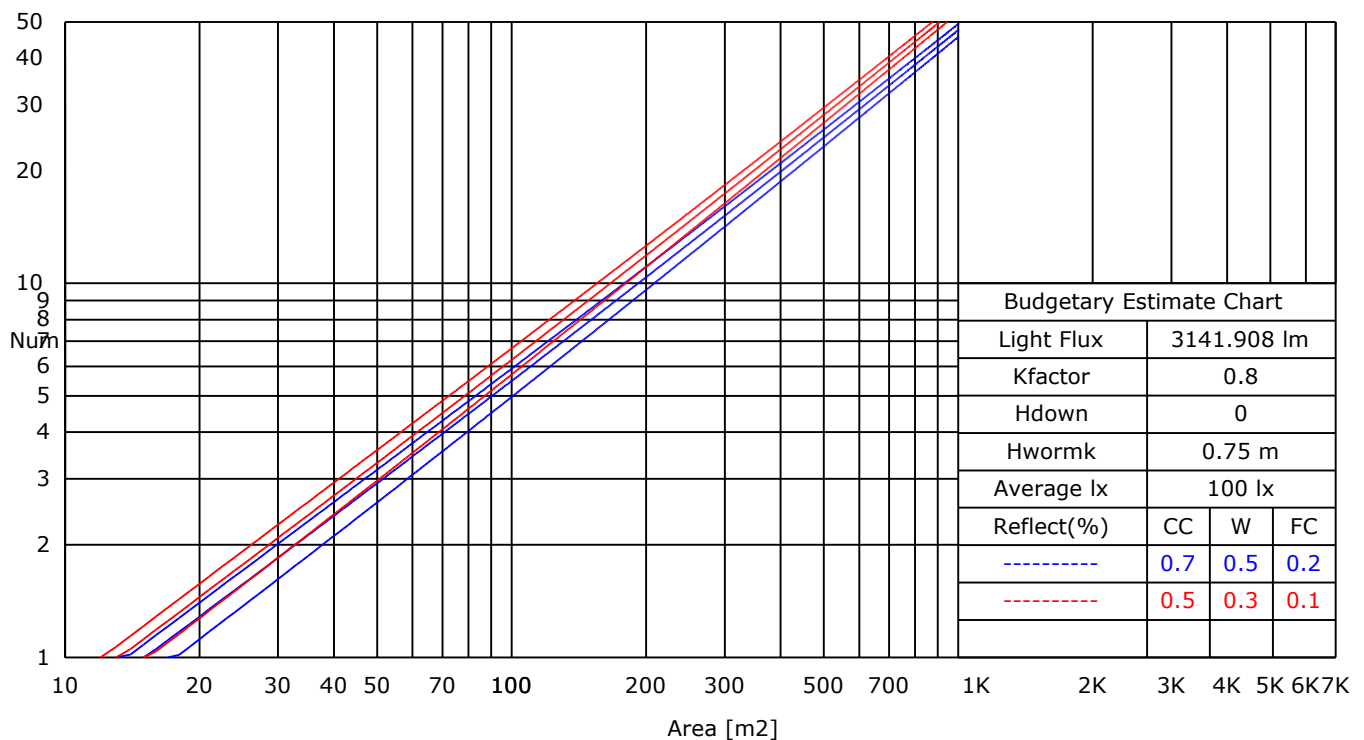
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UTILIZATION FACTORS TABLE

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	0.85	0.82	0.79	0.85	0.81	0.78	0.83	0.79	0.75	0.79	0.75	0.71	0.75	0.70	0.66	0.61
2	0.80	0.77	0.75	0.80	0.76	0.73	0.79	0.74	0.70	0.76	0.71	0.67	0.72	0.67	0.63	0.58
3	0.76	0.73	0.71	0.76	0.72	0.70	0.75	0.70	0.67	0.73	0.68	0.64	0.69	0.64	0.60	0.55
4	0.73	0.70	0.68	0.73	0.69	0.67	0.72	0.67	0.64	0.70	0.65	0.61	0.67	0.62	0.57	0.53
5	0.70	0.67	0.66	0.70	0.67	0.65	0.69	0.65	0.62	0.67	0.62	0.59	0.65	0.60	0.55	0.51
6	0.67	0.65	0.64	0.67	0.64	0.62	0.67	0.63	0.60	0.65	0.60	0.57	0.63	0.58	0.54	0.50
7	0.65	0.63	0.62	0.65	0.62	0.61	0.65	0.61	0.58	0.63	0.59	0.55	0.62	0.56	0.52	0.49
8	0.64	0.62	0.61	0.63	0.61	0.59	0.63	0.59	0.57	0.62	0.57	0.54	0.60	0.55	0.51	0.47
9	0.62	0.60	0.59	0.62	0.59	0.58	0.61	0.58	0.55	0.60	0.56	0.53	0.59	0.53	0.50	0.46
10	0.61	0.59	0.58	0.60	0.58	0.57	0.60	0.56	0.54	0.59	0.54	0.51	0.57	0.52	0.49	0.46

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



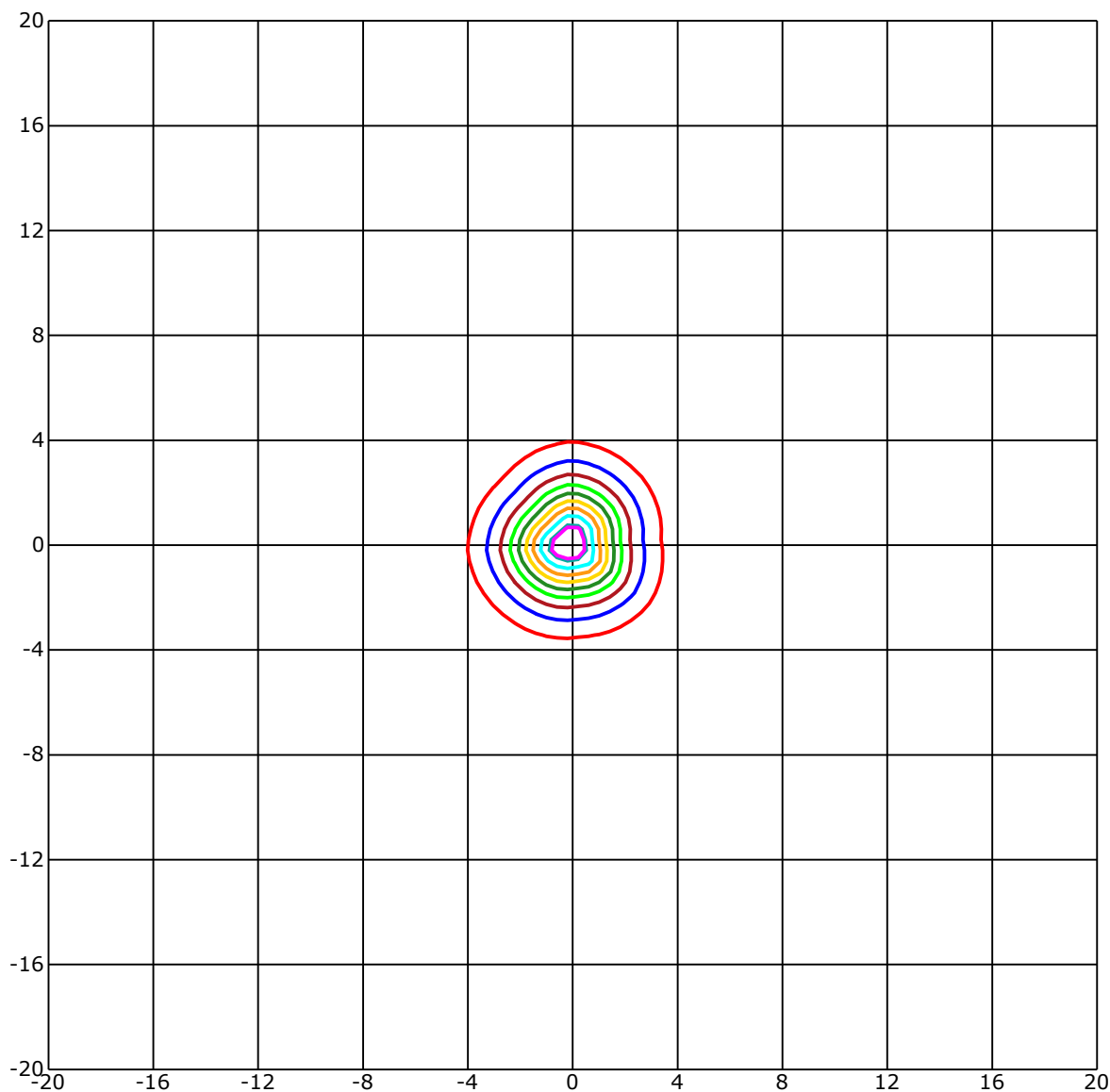
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Operators: QC01
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ISOLX DIAGRAM



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Temperature: 25
Operators: QC01
Test Date: 2025/8/1 18:14:28

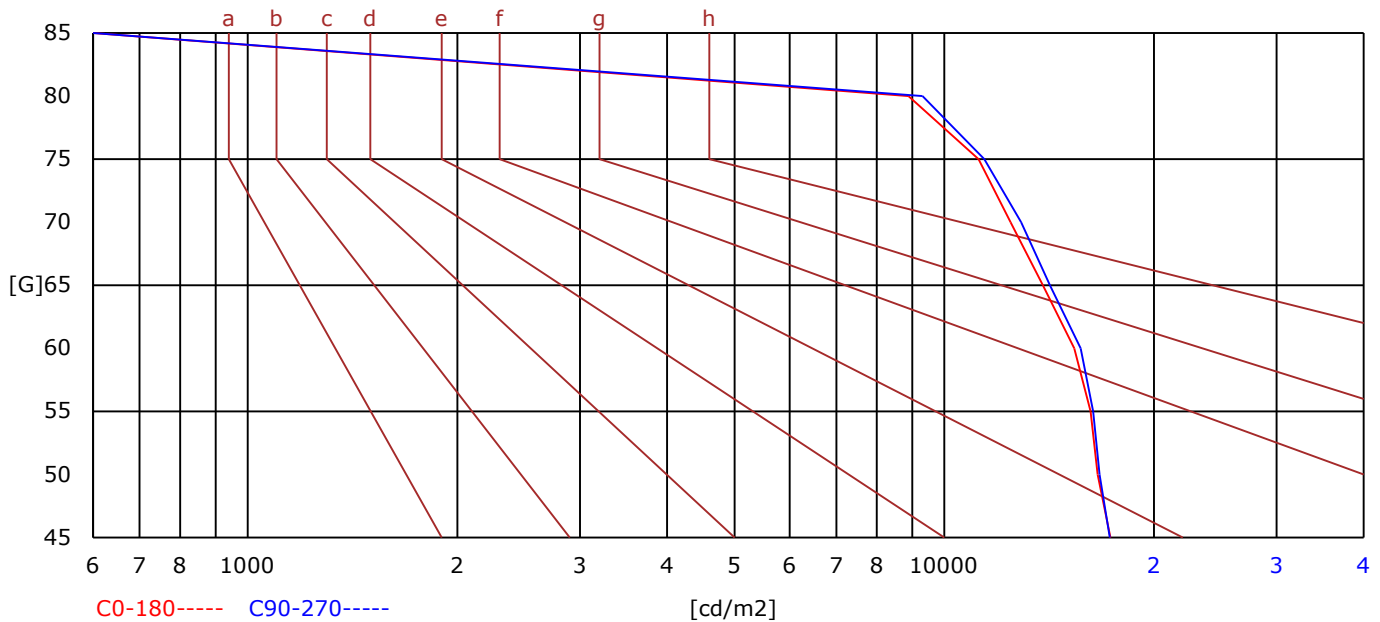
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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Test Distance: 6.87 m
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	17314	16595	16225	15364	13857	12449	11204	8880	0
C90	17290	16714	16363	15698	14173	12888	11412	9305	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



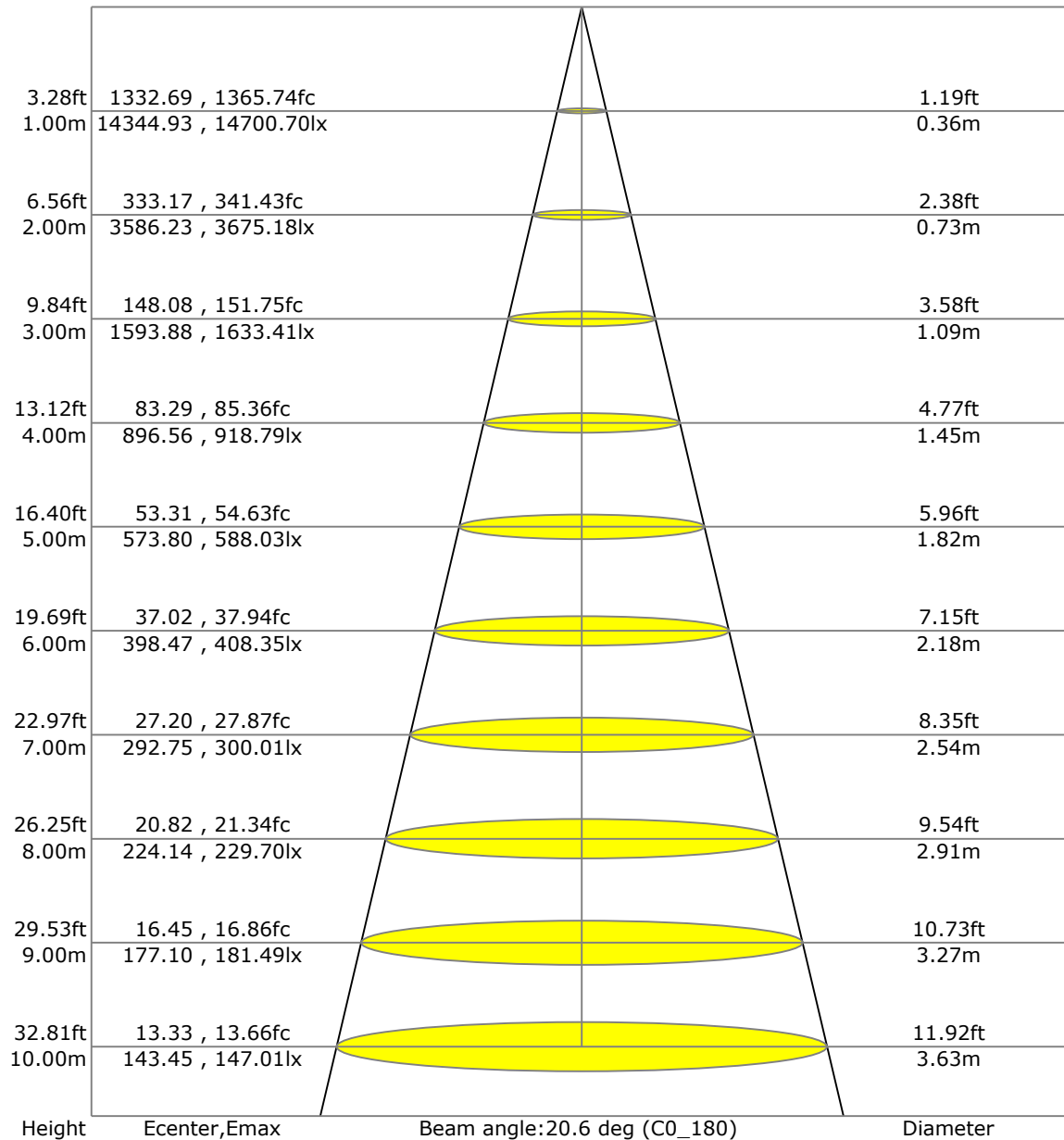
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LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
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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:

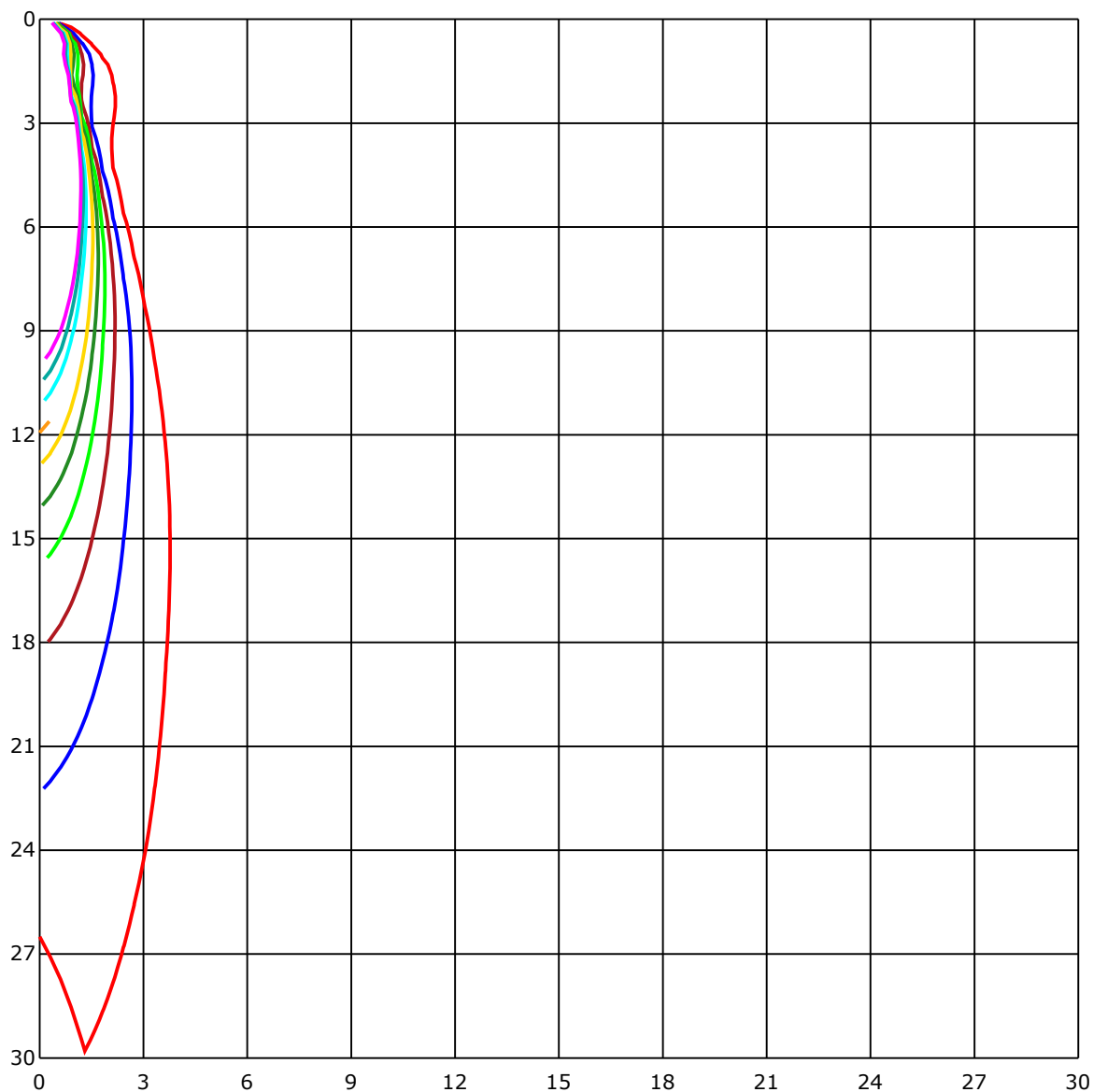
UGR(Unified Glare Rating) TABLE

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	10.52	10.58	10.72	10.77	11.01	10.77	10.84	10.97	11.02	11.27
3H	10.67	10.74	10.88	10.94	11.18	10.89	10.96	11.10	11.15	11.40
4H	10.69	10.76	10.91	10.96	11.21	10.90	10.97	11.11	11.16	11.41
6H	10.68	10.75	10.90	10.96	11.21	10.88	10.95	11.10	11.15	11.41
8H	10.67	10.74	10.89	10.95	11.20	10.87	10.94	11.09	11.15	11.40
12H	10.66	10.73	10.89	10.94	11.20	10.86	10.93	11.09	11.14	11.40
4H 2H	12.23	12.30	12.45	12.50	12.75	12.81	12.88	13.02	13.08	13.33
3H	12.53	12.60	12.76	12.81	13.06	13.07	13.14	13.29	13.35	13.60
4H	12.60	12.67	12.83	12.88	13.14	13.11	13.18	13.34	13.40	13.66
6H	12.61	12.68	12.85	12.90	13.17	13.11	13.17	13.35	13.40	13.66
8H	12.60	12.67	12.85	12.90	13.16	13.09	13.16	13.34	13.39	13.66
12H	12.59	12.65	12.84	12.89	13.16	13.08	13.14	13.33	13.38	13.65
8H 4H	12.36	12.43	12.58	12.64	12.89	13.21	13.28	13.43	13.49	13.74
6H	12.82	12.89	13.08	13.13	13.40	13.65	13.71	13.90	13.95	14.23
8H	12.81	12.88	13.08	13.12	13.40	13.63	13.70	13.90	13.94	14.22
12H	12.80	12.86	13.07	13.11	13.40	13.61	13.67	13.89	13.93	14.21
12H 4H	12.78	12.84	13.03	13.08	13.35	13.65	13.72	13.90	13.95	14.22
6H	12.81	12.87	13.07	13.12	13.39	13.67	13.73	13.93	13.98	14.25

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SPACE ISOLX DIAGRAM



Unit of illumination:lx

143.647	71.823
129.282	57.459
114.918	43.094
100.553	28.729
86.188	14.365

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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	14344.93	14685.88	14548.96	14690.22	14344.93	14685.88	14548.96	14690.22	14344.93	
G1	13816.51	14539.33	14700.7	14505.17	14634.44	14563.26	14220.28	14557.32	13816.51	
G2	13176.76	14129.48	14537.45	14163.55	14688.76	14235.06	13715.23	14202.11	13176.76	
G3	12411.84	13568.17	14169.97	13616.12	14473.54	13769.46	13080.71	13658.36	12411.84	
G4	11557.72	12901.89	13643.25	12964.19	14096.63	13133.06	12319.29	12991.23	11557.72	
G5	10609.06	12127.67	13005.01	12186.0	13528.99	12422.93	11466.49	12211.44	10609.06	
G6	9638.98	11275.48	12284.64	11346.13	12873.8	11605.1	10555.11	11367.47	9638.98	
G7	8706.98	10369.54	11477.25	10411.07	12075.18	10711.29	9652.24	10430.33	8706.98	
G8	7788.9	9430.32	10582.77	9469.11	11181.56	9810.68	8711.23	9496.54	7788.9	
G9	6885.04	8509.32	9650.63	8517.06	10244.79	8857.54	7812.03	8533.58	6885.04	
G10	6068.67	7616.02	8730.2	7621.4	9286.46	7941.21	6938.94	7603.85	6068.67	
G11	5326.6	6787.81	7840.49	6771.1	8336.48	7067.64	6127.9	6735.38	5326.6	
G12	4673.25	6001.79	7005.39	5993.39	7436.77	6263.45	5419.53	5971.97	4673.25	
G13	4098.86	5291.53	6231.41	5296.39	6591.57	5544.74	4758.63	5258.3	4098.86	
G14	3582.29	4646.16	5524.21	4666.03	5809.37	4878.51	4147.1	4631.57	3582.29	
G15	3103.34	4069.22	4867.94	4081.92	5110.72	4281.09	3605.75	4060.77	3103.34	
G16	2663.56	3551.71	4277.31	3568.04	4489.61	3708.97	3106.93	3545.01	2663.56	
G17	2232.84	3082.52	3742.9	3090.08	3933.3	3194.85	2633.07	3055.81	2232.84	
G18	1843.56	2626.98	3243.28	2636.28	3440.51	2716.42	2199.33	2604.37	1843.56	
G19	1510.68	2211.84	2781.6	2215.9	2972.18	2277.77	1821.19	2177.48	1510.68	
G20	1219.33	1836.86	2344.37	1834.5	2520.6	1891.27	1486.33	1800.94	1219.33	
G21	969.28	1500.44	1957.54	1491.52	2108.95	1542.02	1191.3	1458.2	969.28	
G22	773.42	1209.66	1610.93	1195.64	1738.07	1240.05	944.22	1167.27	773.42	
G23	623.8	970.46	1309.67	952.62	1411.38	994.44	748.73	929.83	623.8	
G24	516.57	780.73	1057.54	762.7	1131.64	793.71	601.01	747.36	516.57	
G25	434.12	636.07	857.9	620.17	901.27	646.22	496.7	608.51	434.12	
G26	378.71	525.02	700.59	518.36	726.5	535.21	416.98	508.88	378.71	
G27	339.77	442.28	583.92	437.99	596.9	451.3	365.96	433.5	339.77	
G28	314.38	384.75	497.5	386.12	504.39	394.0	327.5	382.34	314.38	
G29	294.65	348.27	431.24	350.81	433.79	353.41	302.15	347.13	294.65	
G30	280.21	317.78	386.02	324.1	387.72	324.76	283.8	322.07	280.21	
G31	270.91	298.28	353.6	305.32	352.94	305.65	270.91	302.2	270.91	
G32	260.95	283.51	330.33	291.11	329.25	290.78	259.49	288.51	260.95	
G33	252.27	273.79	312.4	278.23	312.25	277.28	250.95	277.57	252.27	
G34	246.84	262.23	297.86	268.17	297.58	266.14	242.69	267.98	246.84	
G35	240.19	254.16	287.24	260.43	285.12	258.59	237.16	259.16	240.19	
G36	235.28	247.17	276.43	252.6	275.25	250.38	229.75	253.64	235.28	

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	229.19	241.6	267.75	246.7	266.95	243.68	224.89	245.8	229.19	
G38	224.75	235.23	259.06	238.91	260.53	237.02	218.99	238.39	224.75	
G39	219.14	228.48	253.02	232.3	252.41	232.59	214.56	232.59	219.14	
G40	214.75	223.76	245.0	227.06	246.56	226.03	210.5	228.15	214.75	
G41	210.55	220.74	239.34	222.68	239.34	221.4	205.87	222.39	210.55	
G42	206.91	213.8	232.3	217.44	234.24	215.22	201.29	217.86	206.91	
G43	202.24	209.84	226.45	211.44	228.01	211.49	197.47	213.05	202.24	
G44	197.0	203.7	221.31	205.92	222.77	206.3	191.05	209.13	197.0	
G45	192.61	203.84	216.11	203.56	217.67	201.39	187.28	204.17	192.61	
G46	188.41	196.15	210.92	196.72	213.99	198.75	182.75	198.89	188.41	
G47	183.74	190.35	204.88	191.76	207.71	193.18	178.55	193.93	183.74	
G48	179.16	186.95	201.2	188.32	204.36	188.27	174.16	190.68	179.16	
G49	175.76	183.55	195.73	183.64	200.92	183.03	172.13	185.11	175.76	
G50	170.99	177.6	190.44	178.88	194.5	179.54	167.27	181.71	170.99	
G51	165.9	172.69	186.29	175.15	188.65	175.15	163.07	176.99	165.9	
G52	161.7	168.73	181.66	170.9	184.45	171.56	158.16	173.02	161.7	
G53	156.65	164.95	176.75	164.81	179.87	167.17	154.52	168.3	156.65	
G54	153.25	159.48	172.27	160.52	176.23	162.31	149.47	163.96	153.25	
G55	148.01	154.95	167.69	156.27	171.18	158.91	146.17	159.1	148.01	
G56	143.62	151.12	162.5	151.64	166.42	153.34	142.49	155.23	143.62	
G57	137.34	146.97	158.82	148.53	161.89	149.28	138.38	150.09	137.34	
G58	131.44	140.74	153.53	142.58	158.39	144.85	131.16	145.6	131.44	
G59	124.93	134.79	148.06	136.64	153.01	138.81	125.83	138.33	124.93	
G60	118.46	127.9	141.5	130.69	147.87	132.39	118.94	131.4	118.46	
G61	111.43	121.96	135.55	124.32	142.02	126.16	114.88	125.87	111.43	
G62	105.86	117.47	129.93	118.28	136.78	120.16	107.0	119.79	105.86	
G63	99.63	109.69	122.29	111.24	129.08	116.2	101.43	113.65	99.63	
G64	94.44	103.03	116.67	105.01	123.0	108.74	96.0	109.07	94.44	
G65	88.49	97.51	110.02	99.73	116.58	103.08	91.37	102.89	88.49	
G66	83.87	92.08	104.16	95.1	111.05	97.18	84.86	97.18	83.87	
G67	78.21	86.94	98.5	88.78	104.82	92.08	80.09	91.61	78.21	
G68	73.91	82.5	92.88	83.44	99.44	86.18	75.42	86.56	73.91	
G69	68.77	77.54	87.69	78.63	92.93	80.85	70.23	80.38	68.77	
G70	62.82	70.89	81.98	73.39	89.53	76.55	64.8	76.08	62.82	
G71	57.77	65.84	76.74	67.26	82.31	72.4	60.55	70.32	57.77	
G72	54.94	61.03	71.6	62.91	77.4	66.36	55.98	66.55	54.94	
G73	48.71	57.58	67.73	58.15	72.31	61.78	51.35	60.98	48.71	

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