

Report No.:

Test Time: 2024/12/24 9:01:02

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP101CT075H122-24°-25W
Lamp Type:
Luminous Width: 68 mm
Luminous Length: 68 mm
Luminous Height: 75 mm

Voltage(V): 220.00 V
Current(A): 0.1120 A
Power(W): 23.83 W
Power Factor: 0.9580
Lamp Luminous Flux: 2018.71

Photometric Results

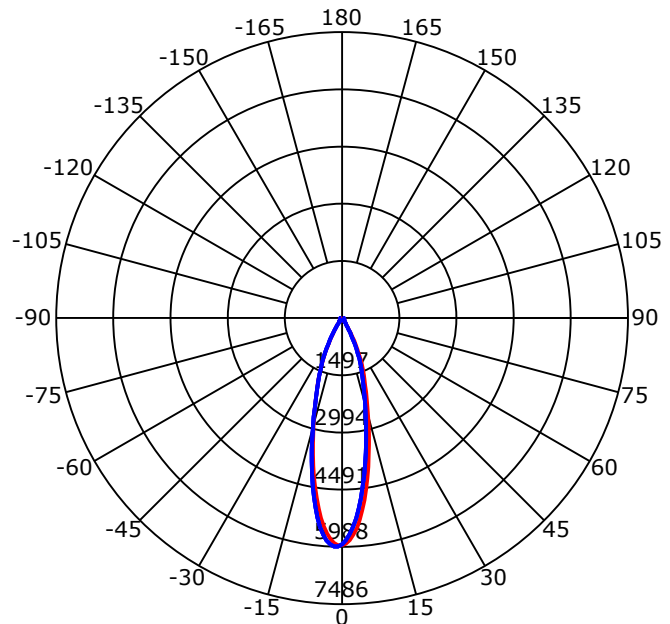
CIE Class: Direct
Luminaire Luminous Flux: 2018.706 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 84.71 lm/W
Beam Angle(50%) C0-180,C90-270: 28.2,27.0
Field Angle(10%) C0-180,C90-270: 57.7,56.8
S/MH C0-180,C90-270: 0.462,0.462

Max. Intensity: 5988.50 cd
Max.Intensity Angle: C=225 Gamma=4
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 5950.05 cd
Effective Luminous Flux: 1676.04 lm
ERP(ϕ use)(120deg): 1948.67 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 28.2 deg,27.0 deg

C0-180 — C90-270 —

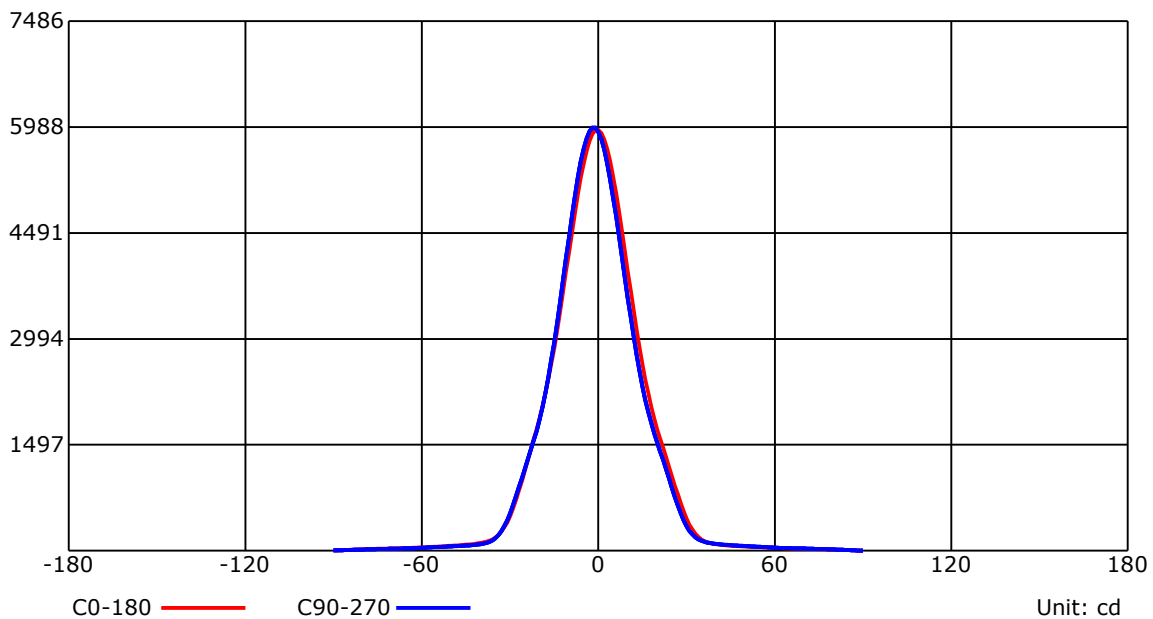
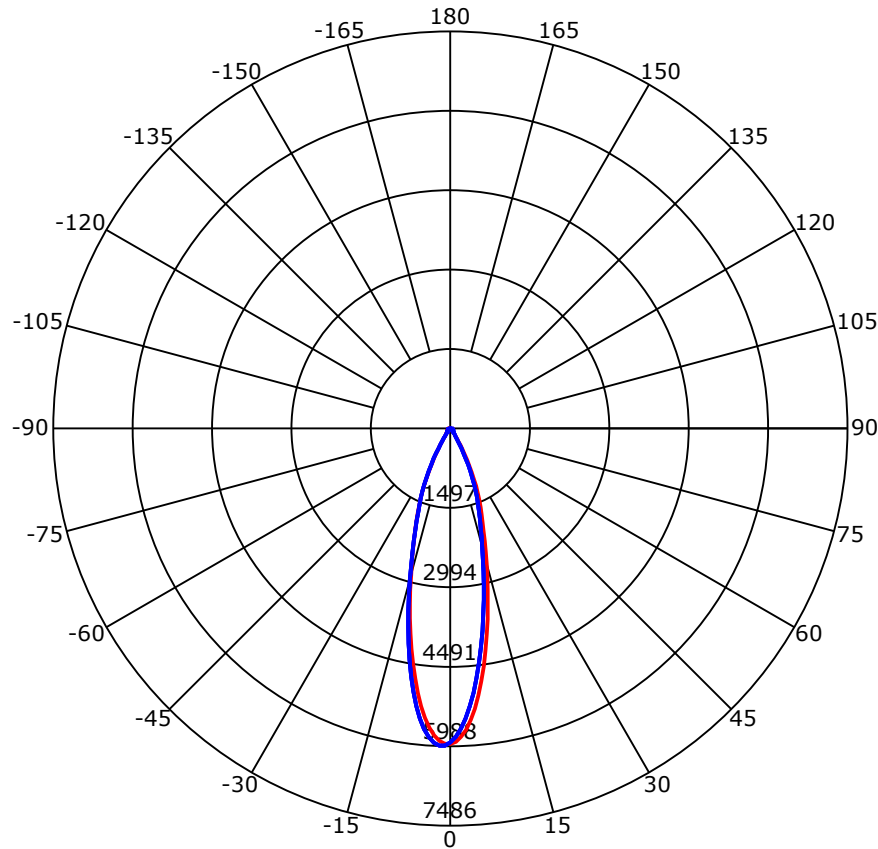
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/12/24 9:01:02

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

Report No.:

Test Time: 2024/12/24 9:01:02

Luminous Intensity Distribution Curve



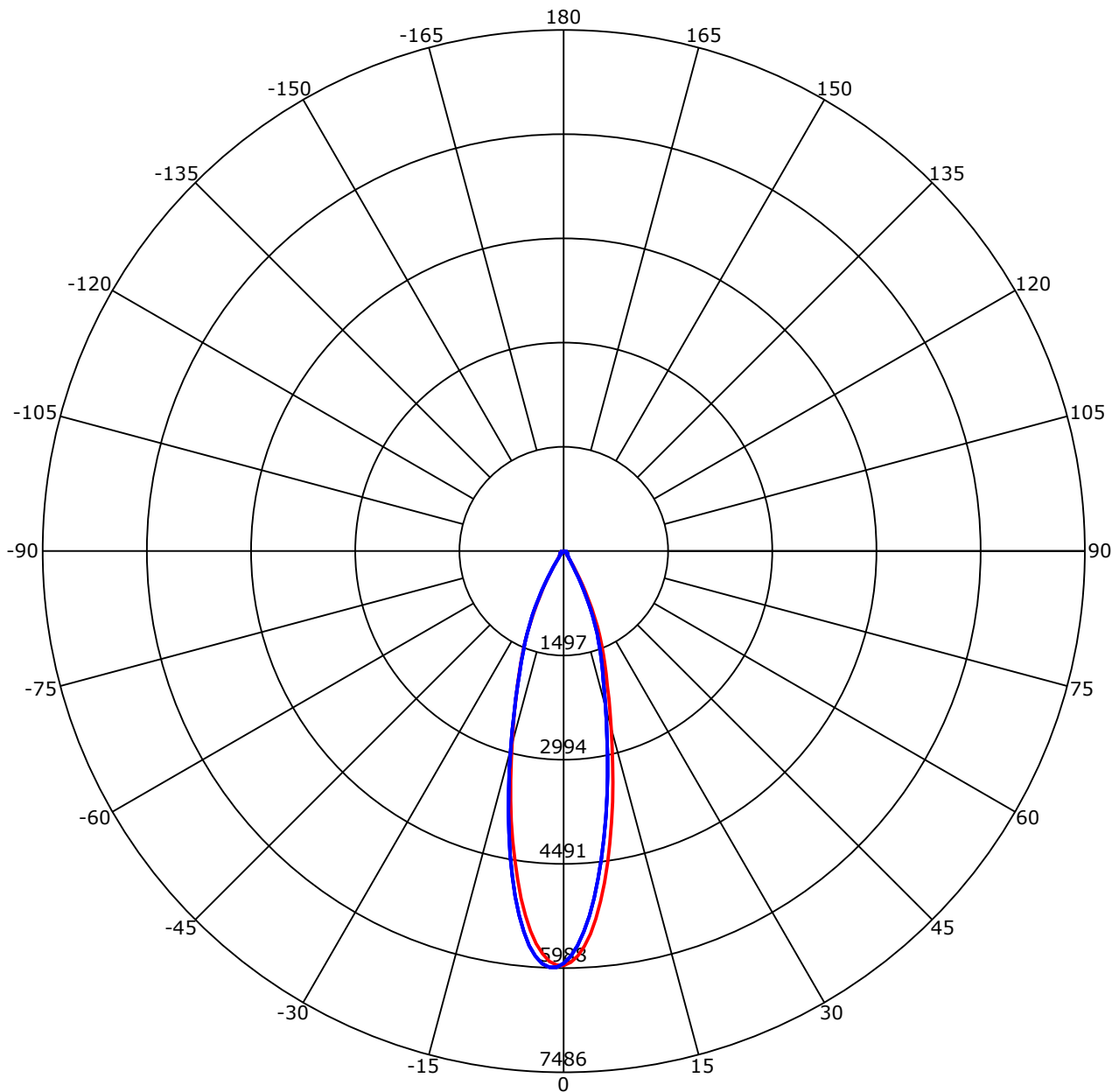
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Test Speed: High
Temperature: 25
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Humidity: 60
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Luminous Intensity Distribution Curve



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: 2024/12/24 9:01:02

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

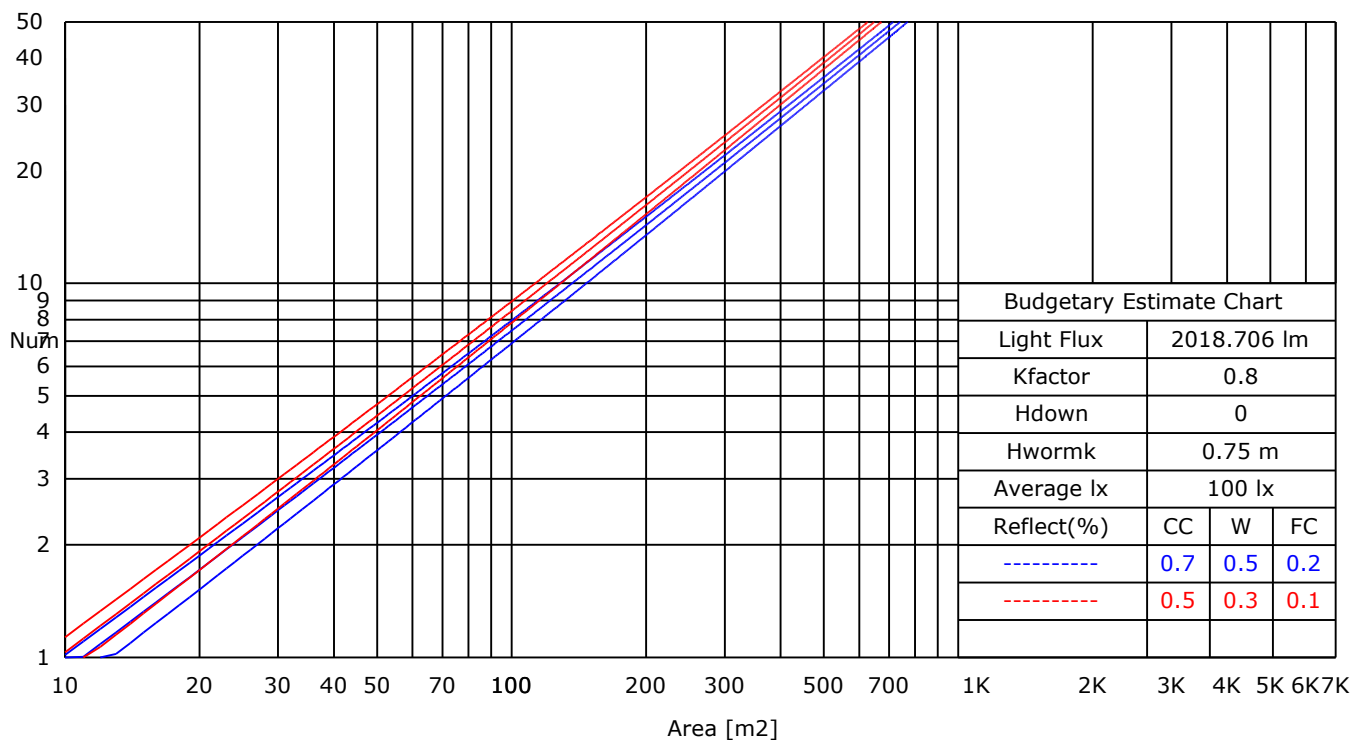
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UTILIZATION FACTORS TABLE

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	0.95	0.92	0.90	0.94	0.91	0.88	0.91	0.88	0.85	0.87	0.84	0.80	0.81	0.78	0.75	0.70
2	0.90	0.88	0.86	0.90	0.87	0.84	0.87	0.84	0.81	0.84	0.80	0.77	0.79	0.75	0.72	0.67
3	0.87	0.84	0.83	0.86	0.83	0.81	0.84	0.80	0.78	0.81	0.77	0.74	0.77	0.73	0.69	0.65
4	0.83	0.81	0.80	0.83	0.80	0.78	0.81	0.77	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	0.78	0.75	0.72	0.76	0.72	0.69	0.73	0.68	0.65	0.61
6	0.78	0.77	0.76	0.78	0.75	0.74	0.76	0.73	0.70	0.74	0.70	0.67	0.71	0.67	0.63	0.59
7	0.76	0.75	0.74	0.76	0.73	0.72	0.74	0.71	0.69	0.72	0.68	0.65	0.69	0.65	0.61	0.58
8	0.75	0.73	0.72	0.74	0.72	0.70	0.72	0.69	0.67	0.70	0.66	0.64	0.68	0.63	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



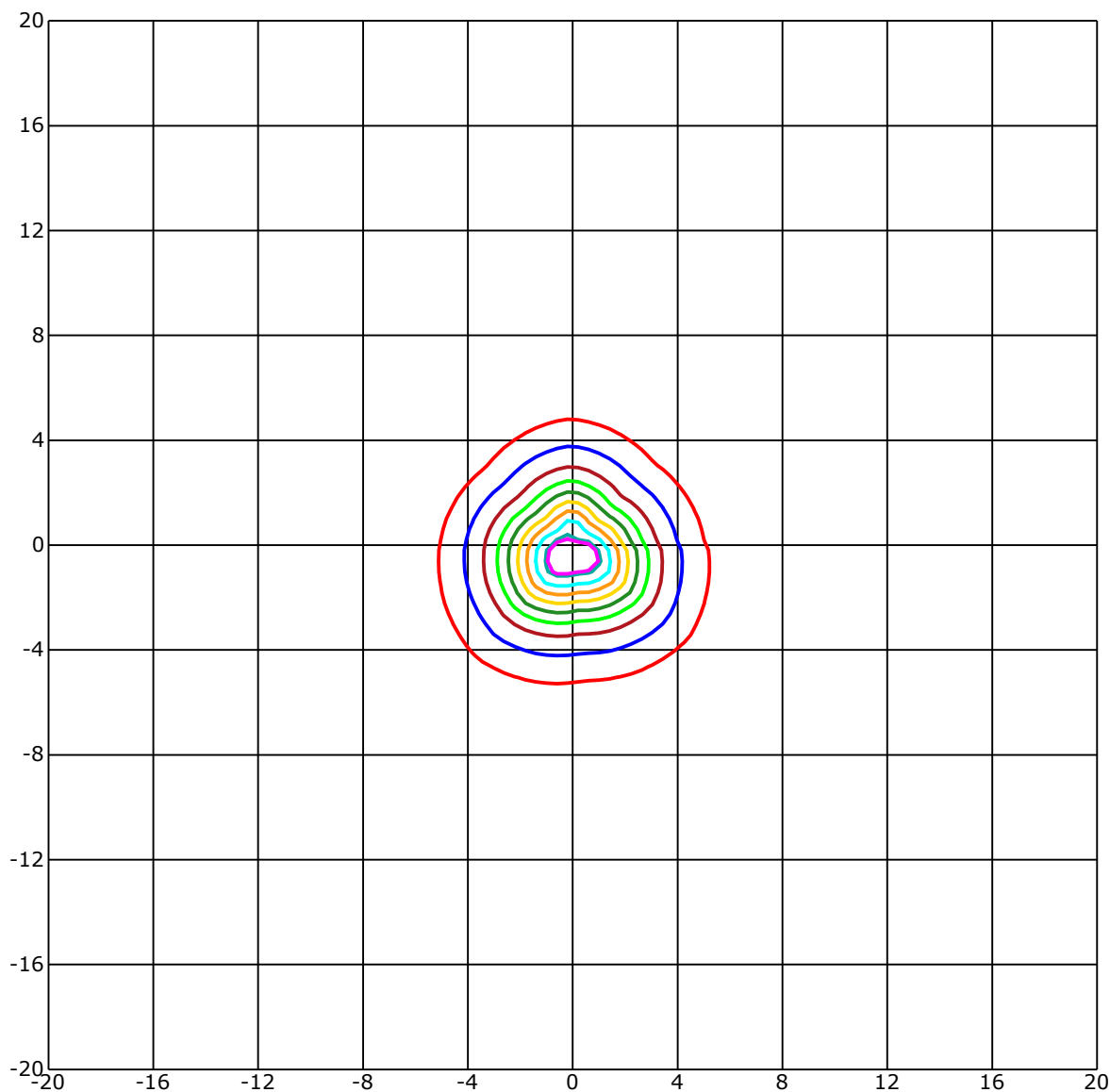
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Operators: QC01
Test Date: 2024/12/24 9:01:02

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



C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/12/24 9:01:02

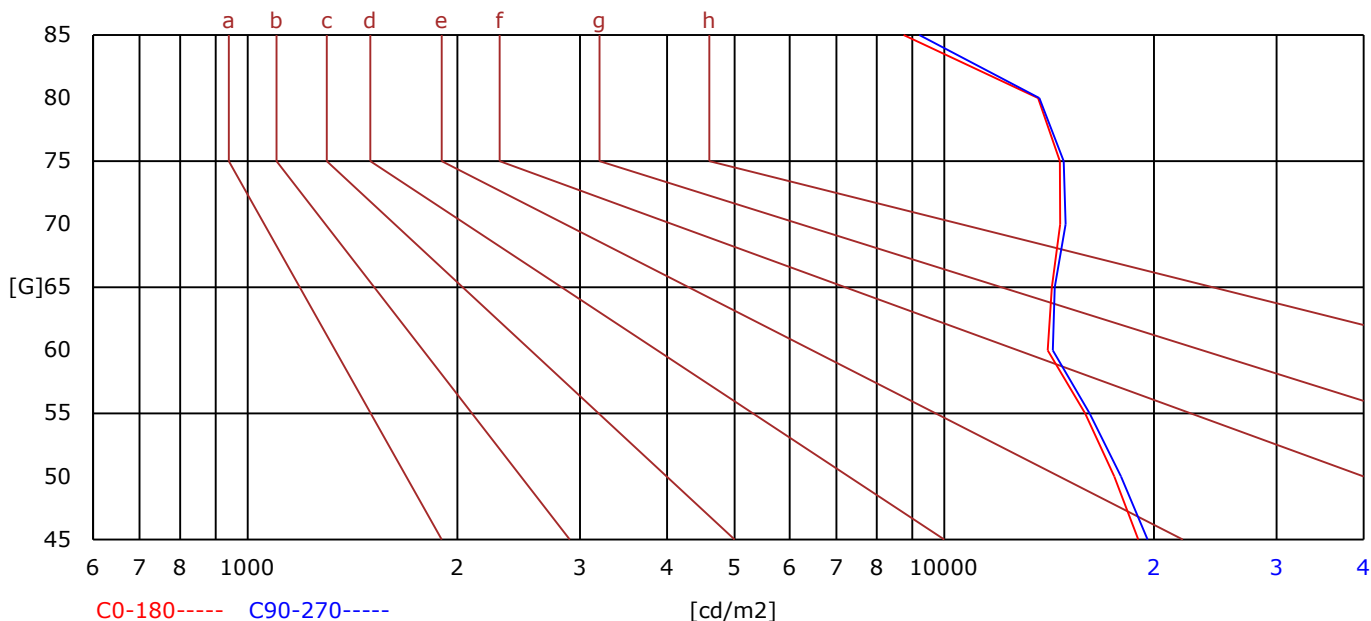
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G Interval: 1.0 Deg
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Humidity: 60
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	18992	17538	15930	14081	14263	14662	14648	13631	8746
C90	19588	17928	16174	14322	14405	14926	14842	13688	9206
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



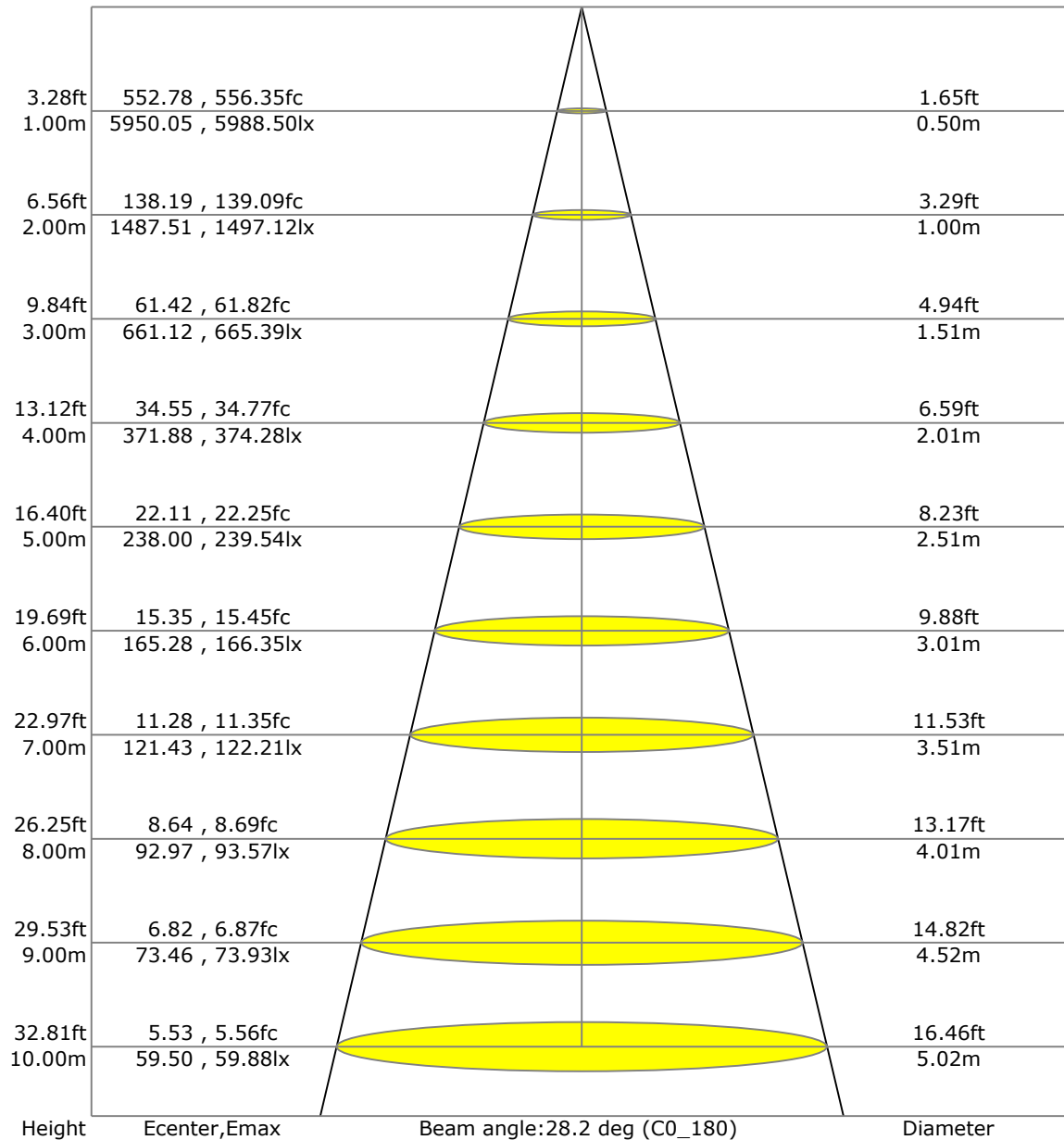
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LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 25
 Operators: QC01
 Test Date: 2024/12/24 9:01:02

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	9.52	9.58	9.72	9.76	10.01	9.72	9.78	9.92	9.97	10.21
3H	9.70	9.76	9.91	9.95	10.20	9.88	9.93	10.08	10.13	10.37
4H	9.75	9.80	9.96	10.00	10.25	9.91	9.96	10.12	10.16	10.41
6H	9.75	9.81	9.96	10.01	10.26	9.90	9.96	10.12	10.16	10.42
8H	9.74	9.80	9.96	10.00	10.25	9.90	9.95	10.11	10.16	10.41
12H	9.73	9.79	9.95	9.99	10.25	9.89	9.94	10.11	10.15	10.41
4H 2H	11.79	11.85	12.01	12.05	12.30	12.24	12.29	12.45	12.49	12.74
3H	12.16	12.22	12.39	12.43	12.68	12.56	12.62	12.79	12.83	13.08
4H	12.27	12.32	12.50	12.54	12.80	12.65	12.70	12.88	12.92	13.18
6H	12.31	12.37	12.55	12.59	12.85	12.68	12.73	12.92	12.96	13.22
8H	12.32	12.37	12.56	12.60	12.87	12.68	12.73	12.92	12.96	13.23
12H	12.31	12.36	12.56	12.60	12.87	12.67	12.72	12.92	12.95	13.22
8H 4H	12.61	12.67	12.83	12.88	13.13	13.16	13.22	13.38	13.42	13.68
6H	13.41	13.47	13.67	13.71	13.98	13.90	13.95	14.15	14.19	14.46
8H	13.43	13.49	13.70	13.73	14.01	13.91	13.96	14.17	14.21	14.48
12H	13.44	13.49	13.71	13.74	14.02	13.91	13.96	14.18	14.21	14.49
12H 4H	13.57	13.62	13.82	13.85	14.12	14.12	14.18	14.37	14.41	14.68
6H	13.70	13.76	13.97	14.00	14.28	14.25	14.30	14.51	14.54	14.82

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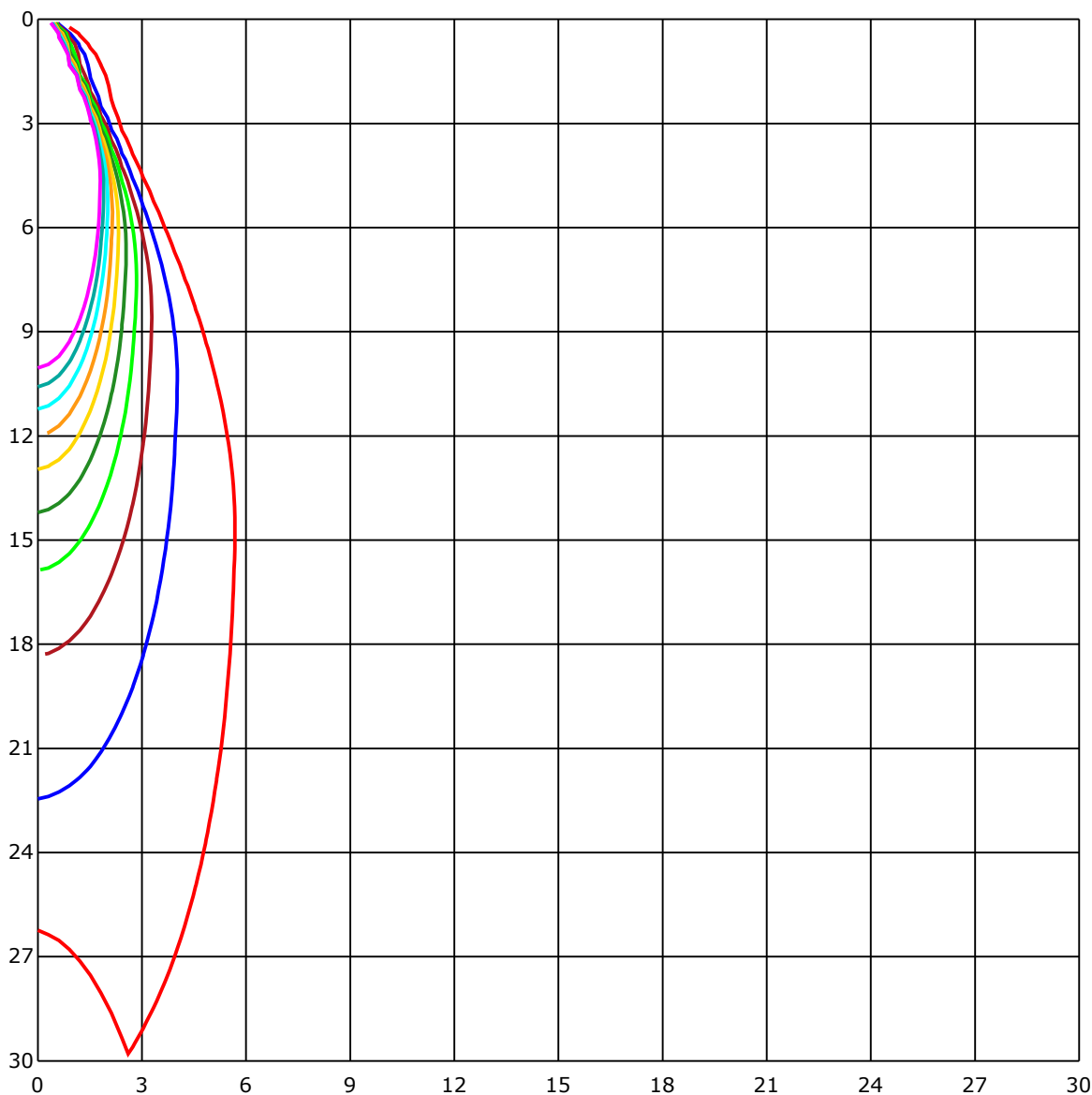
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SPACE ISOLX DIAGRAM



Unit of illumination:lx

59.018	29.509
53.116	23.607
47.214	17.705
41.313	11.804
35.411	5.902

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	5950.05	5658.53	5920.98	5734.96	5950.05	5658.53	5920.98	5734.96	5950.05	
G1	5903.96	5462.73	5816.58	5574.92	5944.49	5809.72	5978.76	5852.48	5903.96	
G2	5813.89	5240.41	5667.11	5376.15	5893.29	5917.59	5980.48	5924.18	5813.89	
G3	5681.81	4981.91	5474.37	5148.67	5792.61	5975.79	5931.55	5946.81	5681.81	
G4	5512.08	4700.73	5251.68	4889.94	5652.37	5988.5	5831.28	5927.98	5512.08	
G5	5302.09	4401.23	5003.38	4610.02	5476.28	5942.82	5688.31	5858.14	5302.09	
G6	5056.39	4106.6	4729.57	4319.29	5266.19	5849.05	5494.97	5741.5	5056.39	
G7	4798.4	3811.33	4443.62	4027.58	5024.43	5703.75	5268.0	5582.43	4798.4	
G8	4524.78	3513.92	4157.76	3735.78	4762.22	5519.08	5007.27	5384.08	4524.78	
G9	4241.47	3242.39	3859.79	3447.46	4489.21	5291.28	4730.27	5157.53	4241.47	
G10	3952.77	2973.68	3570.64	3180.43	4218.32	5042.71	4433.09	4908.68	3952.77	
G11	3671.23	2722.09	3291.54	2914.14	3944.33	4773.45	4126.87	4650.09	3671.23	
G12	3393.76	2485.02	3026.5	2680.45	3658.29	4486.29	3825.19	4372.34	3393.76	
G13	3125.84	2273.36	2768.7	2445.88	3383.65	4194.86	3519.44	4098.63	3125.84	
G14	2876.52	2080.29	2539.0	2241.4	3117.73	3890.82	3229.91	3815.36	2876.52	
G15	2640.79	1909.21	2320.94	2051.08	2866.79	3604.81	2949.94	3538.08	2640.79	
G16	2417.54	1752.92	2128.29	1879.81	2637.18	3317.93	2692.04	3271.23	2417.54	
G17	2217.1	1613.7	1953.32	1727.83	2422.46	3044.03	2446.25	3011.02	2217.1	
G18	2030.86	1483.9	1800.55	1580.13	2224.43	2785.72	2228.56	2770.09	2030.86	
G19	1868.86	1368.28	1658.55	1443.55	2041.62	2537.98	2029.74	2537.38	1868.86	
G20	1718.7	1244.87	1531.85	1306.28	1876.52	2315.19	1855.46	2324.51	1718.7	
G21	1589.03	1125.78	1402.92	1170.95	1722.04	2110.21	1695.7	2132.37	1589.03	
G22	1455.24	1001.21	1279.98	1034.0	1570.53	1935.65	1555.36	1960.74	1455.24	
G23	1323.9	874.79	1150.45	898.82	1423.0	1774.72	1421.89	1806.49	1323.9	
G24	1188.25	744.89	1021.99	767.57	1276.73	1629.89	1292.04	1659.75	1188.25	
G25	1055.71	624.13	888.29	644.86	1131.3	1490.57	1160.24	1516.17	1055.71	
G26	921.26	511.25	759.97	533.88	987.63	1355.85	1028.9	1378.62	921.26	
G27	795.81	413.54	636.47	436.54	847.34	1221.41	898.26	1238.01	795.81	
G28	671.85	329.13	525.95	352.97	716.97	1086.27	769.43	1104.4	671.85	
G29	557.07	262.26	427.73	284.66	597.93	951.82	647.69	966.66	557.07	
G30	452.45	209.62	345.55	231.51	491.49	816.92	532.54	831.8	452.45	
G31	364.98	170.76	278.67	190.19	400.97	690.08	431.3	704.08	364.98	
G32	294.02	142.24	227.75	159.81	326.81	568.01	345.83	585.5	294.02	
G33	237.68	122.15	188.61	137.0	268.24	461.63	273.29	480.5	237.68	
G34	194.04	107.78	160.14	120.21	222.33	371.1	217.87	390.3	194.04	
G35	161.16	97.95	139.78	108.15	187.59	299.45	175.9	316.75	161.16	
G36	136.53	90.85	125.77	99.24	161.11	242.59	145.53	258.04	136.53	

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Test Distance: 6.81 m
Remarks:

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	118.95	85.42	115.62	92.66	142.0	199.93	123.5	211.8	118.95	
G38	106.02	81.25	107.82	87.56	127.91	168.16	108.89	177.67	106.02	
G39	96.6	77.63	101.56	82.92	117.8	146.5	99.24	152.44	96.6	
G40	90.06	74.25	96.6	79.16	109.77	130.36	92.61	134.49	90.06	
G41	85.05	71.51	92.1	75.59	103.6	119.46	86.82	120.81	85.05	
G42	80.56	68.87	88.16	72.3	97.81	110.93	82.64	111.44	80.56	
G43	76.94	66.41	84.78	69.19	93.22	104.39	78.7	104.62	76.94	
G44	73.74	64.09	81.3	66.6	88.72	98.69	75.64	99.06	73.74	
G45	71.09	62.1	78.42	64.05	85.05	93.91	72.58	94.1	71.09	
G46	68.36	60.1	75.69	61.73	81.3	89.88	70.21	90.02	68.36	
G47	65.85	58.02	72.95	59.36	78.1	86.21	67.52	86.4	65.85	
G48	63.4	55.88	70.58	57.27	74.94	82.6	65.39	83.15	63.4	
G49	61.17	54.03	67.85	55.14	72.3	79.54	63.12	79.95	61.17	
G50	58.99	52.13	65.62	53.29	69.43	76.34	61.12	77.31	58.99	
G51	57.09	50.32	63.3	51.25	67.2	73.69	59.22	74.53	57.09	
G52	55.05	47.95	61.12	49.25	64.51	70.96	57.14	71.93	55.05	
G53	53.05	46.01	58.85	46.65	62.1	68.54	55.09	69.47	53.05	
G54	50.87	44.15	56.81	44.75	59.73	66.23	53.24	67.01	50.87	
G55	49.02	42.25	54.49	42.9	57.41	63.91	51.2	64.74	49.02	
G56	46.84	40.63	52.4	40.86	55.28	61.45	49.48	62.33	46.84	
G57	45.03	38.77	50.27	39.0	52.92	59.22	47.03	60.06	45.03	
G58	42.85	37.05	48.0	37.43	50.78	56.9	45.17	57.78	42.85	
G59	40.86	34.87	45.91	35.43	48.46	54.82	43.08	55.51	40.86	
G60	39.05	32.56	43.87	33.11	46.19	52.45	41.27	53.29	39.05	
G61	37.24	31.21	41.14	31.72	44.38	50.5	39.19	50.97	37.24	
G62	35.25	30.38	39.28	30.84	41.78	47.86	37.33	48.37	35.25	
G63	33.02	29.87	38.12	29.91	39.88	45.68	35.11	46.38	33.02	
G64	31.54	28.66	37.1	29.08	38.58	43.64	33.16	44.2	31.54	
G65	30.84	27.87	36.08	28.15	37.56	41.23	31.58	41.51	30.84	
G66	29.77	26.99	35.15	27.32	36.41	39.33	30.75	39.56	29.77	
G67	28.99	26.11	33.9	26.39	35.25	38.12	29.82	38.26	28.99	
G68	28.15	25.04	32.93	25.37	34.18	37.01	29.22	37.38	28.15	
G69	27.22	24.16	31.77	24.44	33.16	35.94	28.15	36.22	27.22	
G70	26.34	23.19	30.75	23.61	32.05	35.01	27.22	35.15	26.34	
G71	25.46	22.03	29.68	22.26	31.12	34.09	26.39	34.13	25.46	
G72	24.39	20.87	28.52	21.19	29.87	32.83	25.41	33.02	24.39	
G73	23.51	19.8	27.18	20.03	28.71	31.95	24.49	32.0	23.51	

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: 6.81 m

Remarks:

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: 2024/12/24 9:01:02

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