

Report No.:

Test Time: 2025/1/7 18:11:19

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP115CT075H105-45°-25W
Lamp Type:
Luminous Width: 74 mm
Luminous Length: 74 mm
Luminous Height: 57 mm

Voltage(V): 219.80 V
Current(A): 0.1160 A
Power(W): 24.83 W
Power Factor: 0.9660
Lamp Luminous Flux: 2191.53

Photometric Results

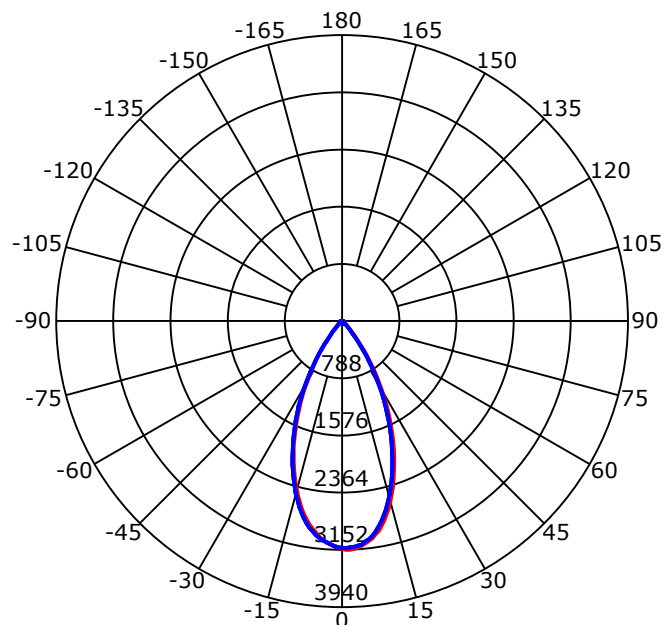
CIE Class: Direct
Luminaire Luminous Flux: 2191.53 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 88.26 lm/W
Beam Angle(50%) C0-180,C90-270: 49.0,49.1
Field Angle(10%) C0-180,C90-270: 78.0,76.9
S/MH C0-180,C90-270: 0.768,0.768

Max. Intensity: 3152.10 cd
Max.Intensity Angle: C=0 Gamma=2
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 3137.85 cd
Effective Luminous Flux: 2007.90 lm
ERP(ϕ use)(120deg): 2158.03 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 49.0 deg,49.1 deg

C0-180 — C90-270 —

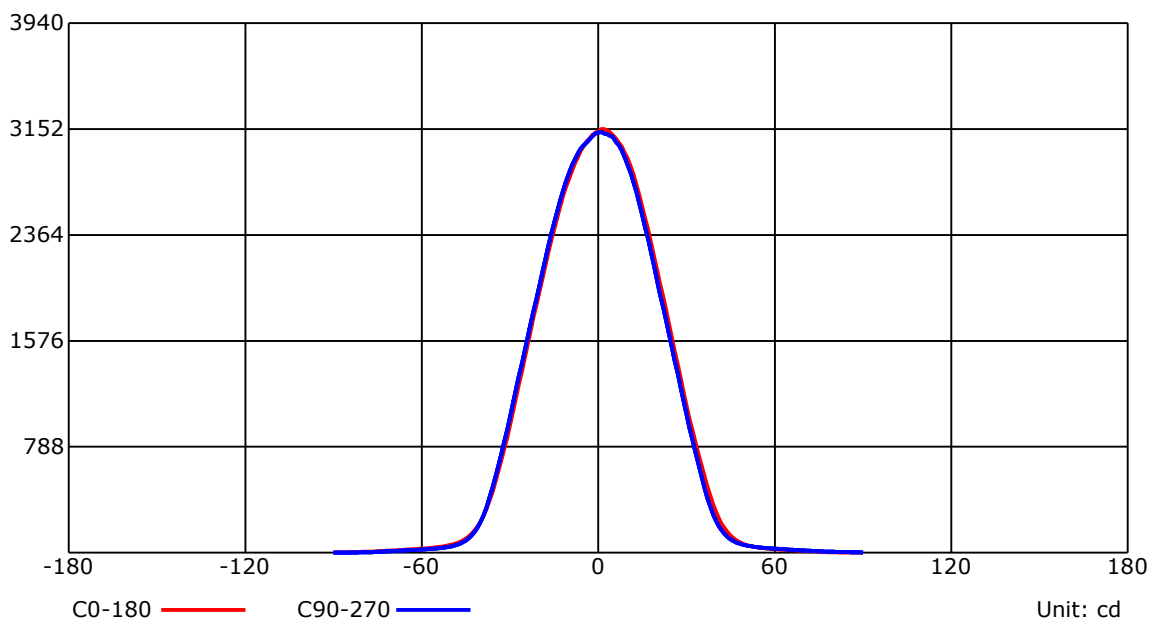
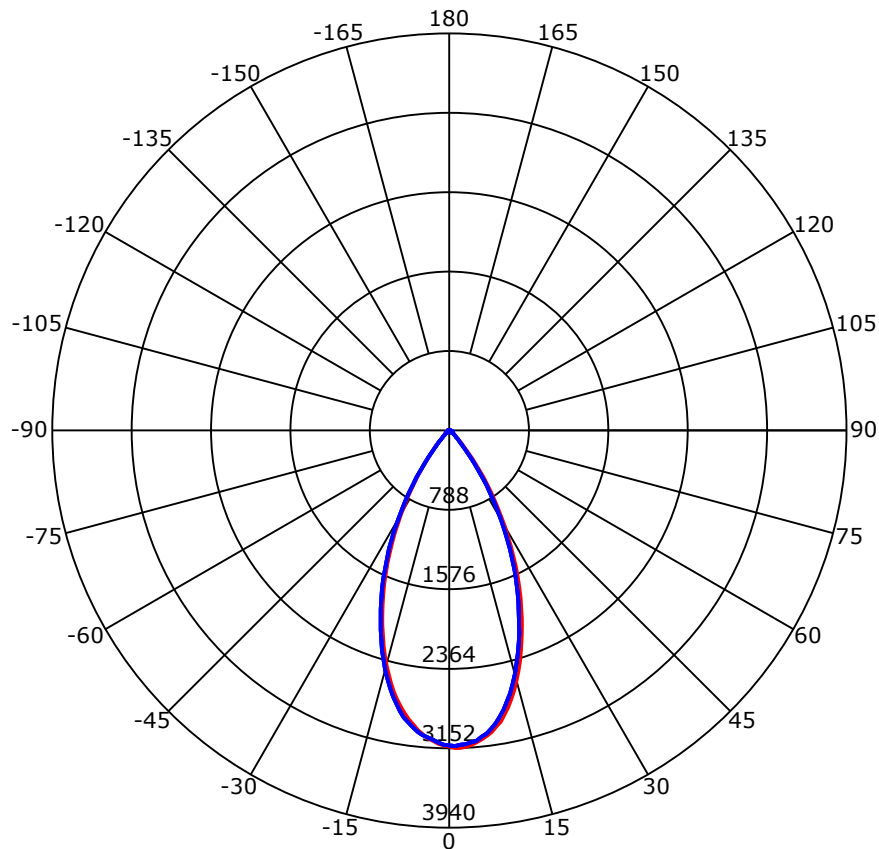
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/1/7 18:11:19

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.78 m
Remarks:

Report No.:

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Luminous Intensity Distribution Curve



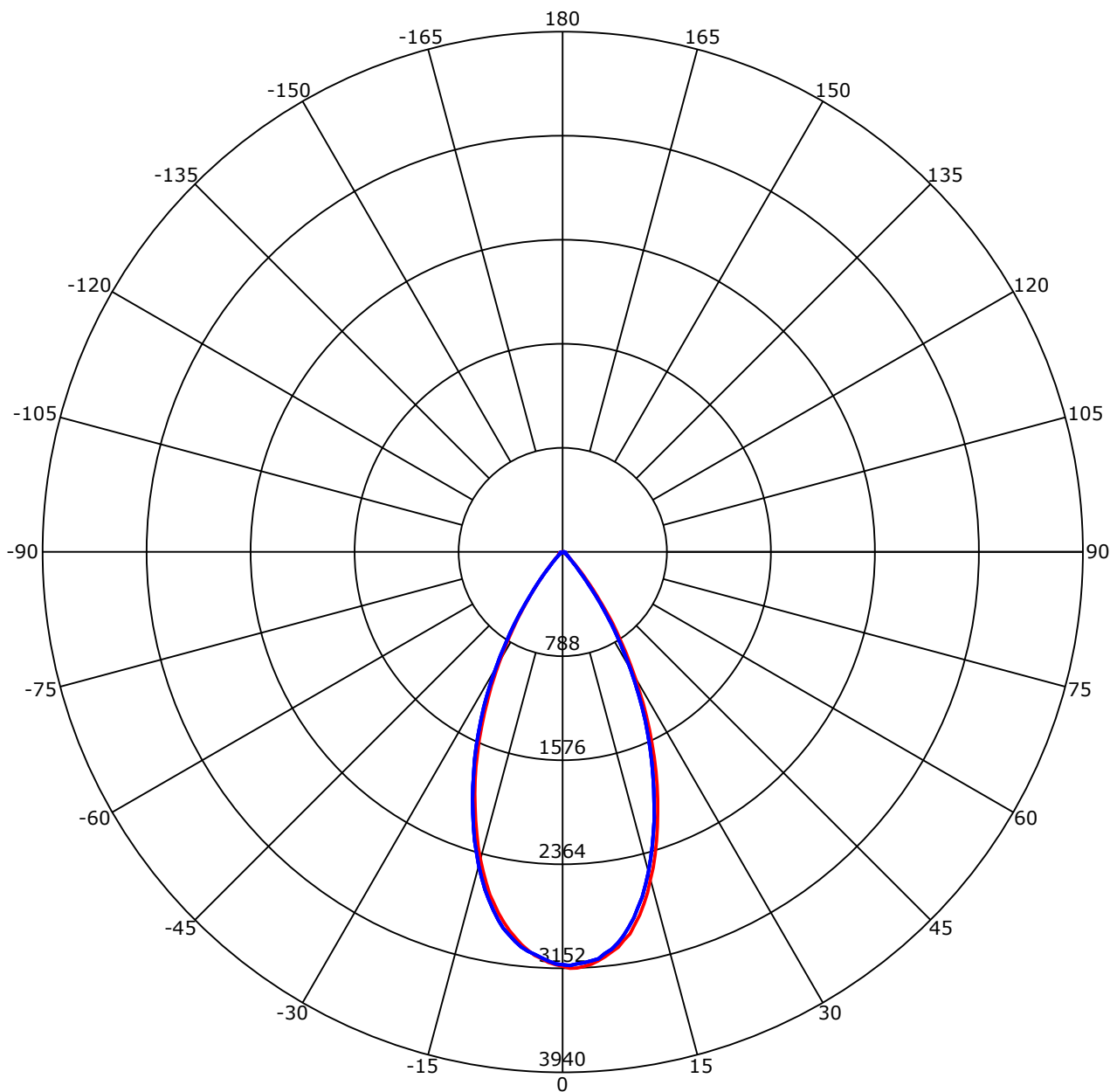
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/1/7 18:11:19

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.78 m
Remarks:

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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: 2025/1/7 18:11:19

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.78 m
Remarks:

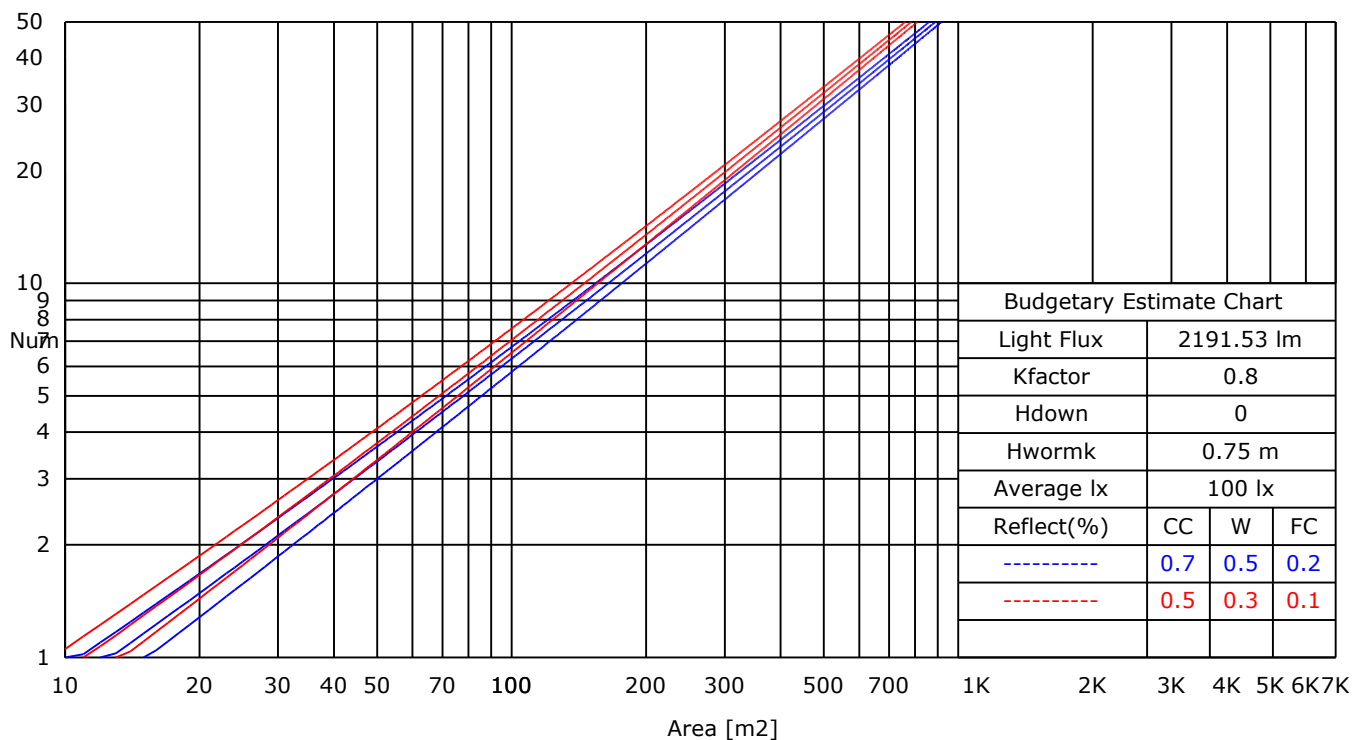
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UTILIZATION FACTORS TABLE

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	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	1.04	1.02	1.01	1.03	1.01	0.99	0.99	0.97	0.95	0.95	0.92	0.90	0.88	0.86	0.84	0.78
2	1.00	0.98	0.96	0.98	0.96	0.95	0.95	0.93	0.91	0.91	0.88	0.86	0.86	0.83	0.80	0.75
3	0.95	0.94	0.93	0.94	0.92	0.91	0.91	0.89	0.87	0.88	0.85	0.82	0.83	0.80	0.77	0.72
4	0.92	0.90	0.89	0.91	0.89	0.87	0.88	0.85	0.83	0.85	0.81	0.79	0.81	0.77	0.74	0.70
5	0.88	0.87	0.86	0.87	0.85	0.84	0.85	0.82	0.80	0.82	0.78	0.76	0.78	0.74	0.71	0.67
6	0.85	0.84	0.83	0.84	0.82	0.81	0.82	0.79	0.77	0.79	0.76	0.73	0.76	0.72	0.69	0.65
7	0.83	0.81	0.80	0.82	0.80	0.78	0.79	0.77	0.75	0.77	0.73	0.71	0.74	0.70	0.67	0.63
8	0.80	0.79	0.78	0.79	0.77	0.76	0.77	0.74	0.72	0.75	0.71	0.68	0.72	0.68	0.65	0.61
9	0.78	0.76	0.76	0.77	0.75	0.74	0.75	0.72	0.70	0.72	0.69	0.66	0.70	0.66	0.63	0.59
10	0.75	0.74	0.73	0.75	0.73	0.72	0.73	0.70	0.68	0.70	0.67	0.65	0.68	0.64	0.61	0.58

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



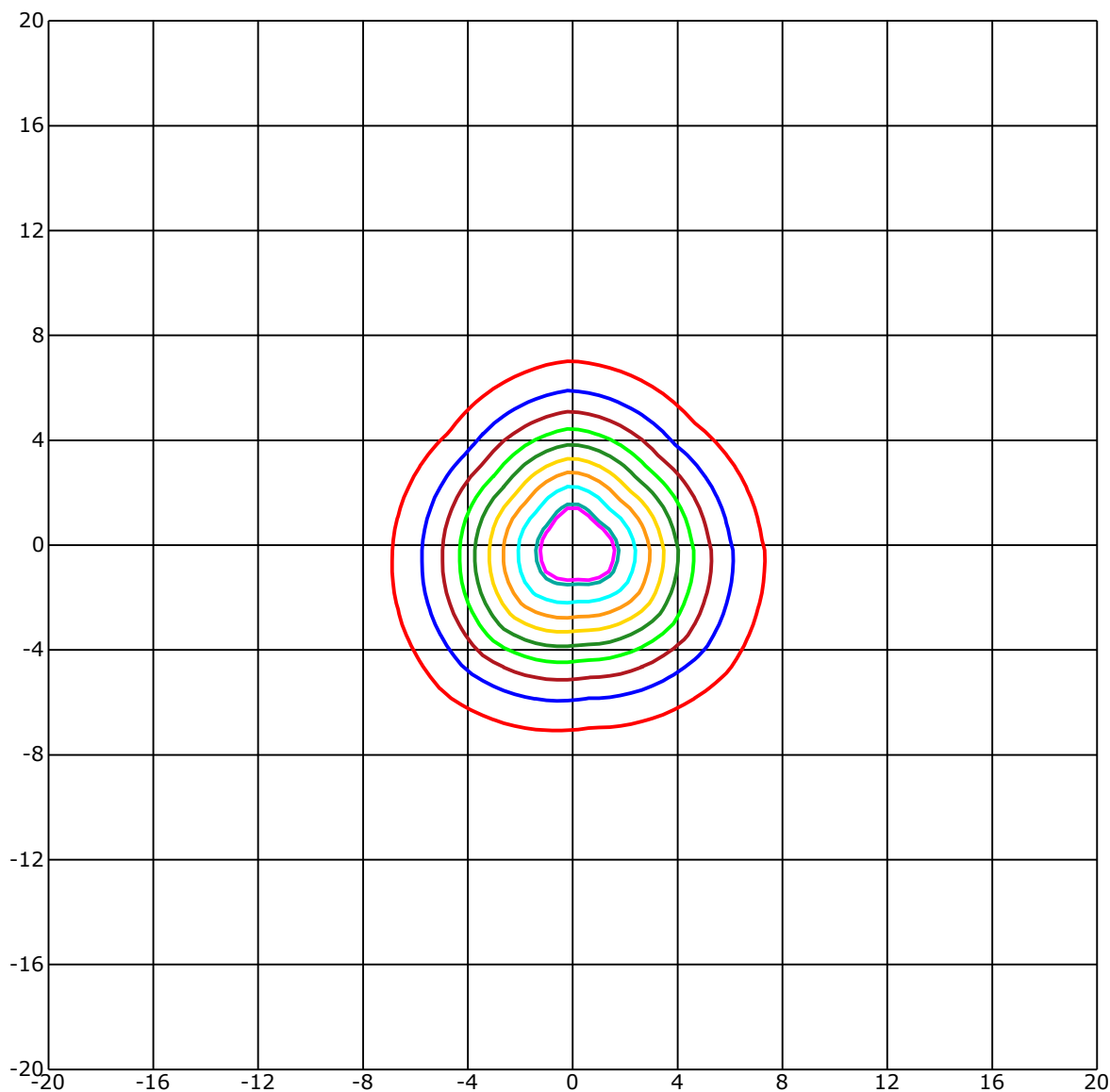
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Temperature: 25
Operators: QC01
Test Date: 2025/1/7 18:11:19

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.78 m
Remarks:

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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: 2025/1/7 18:11:19

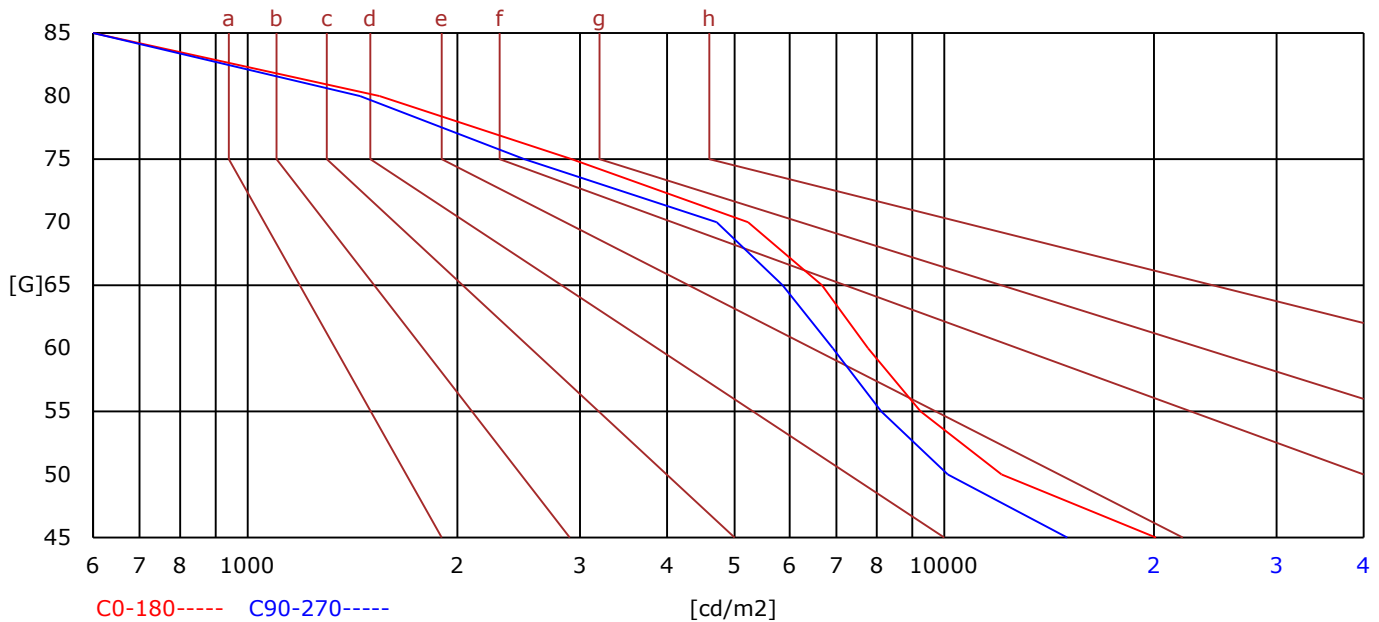
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.78 m
Remarks:

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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	20122	12080	9250	7773	6674	5228	2919	1547	0
C90	15006	10121	8123	6917	5860	4712	2497	1450	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



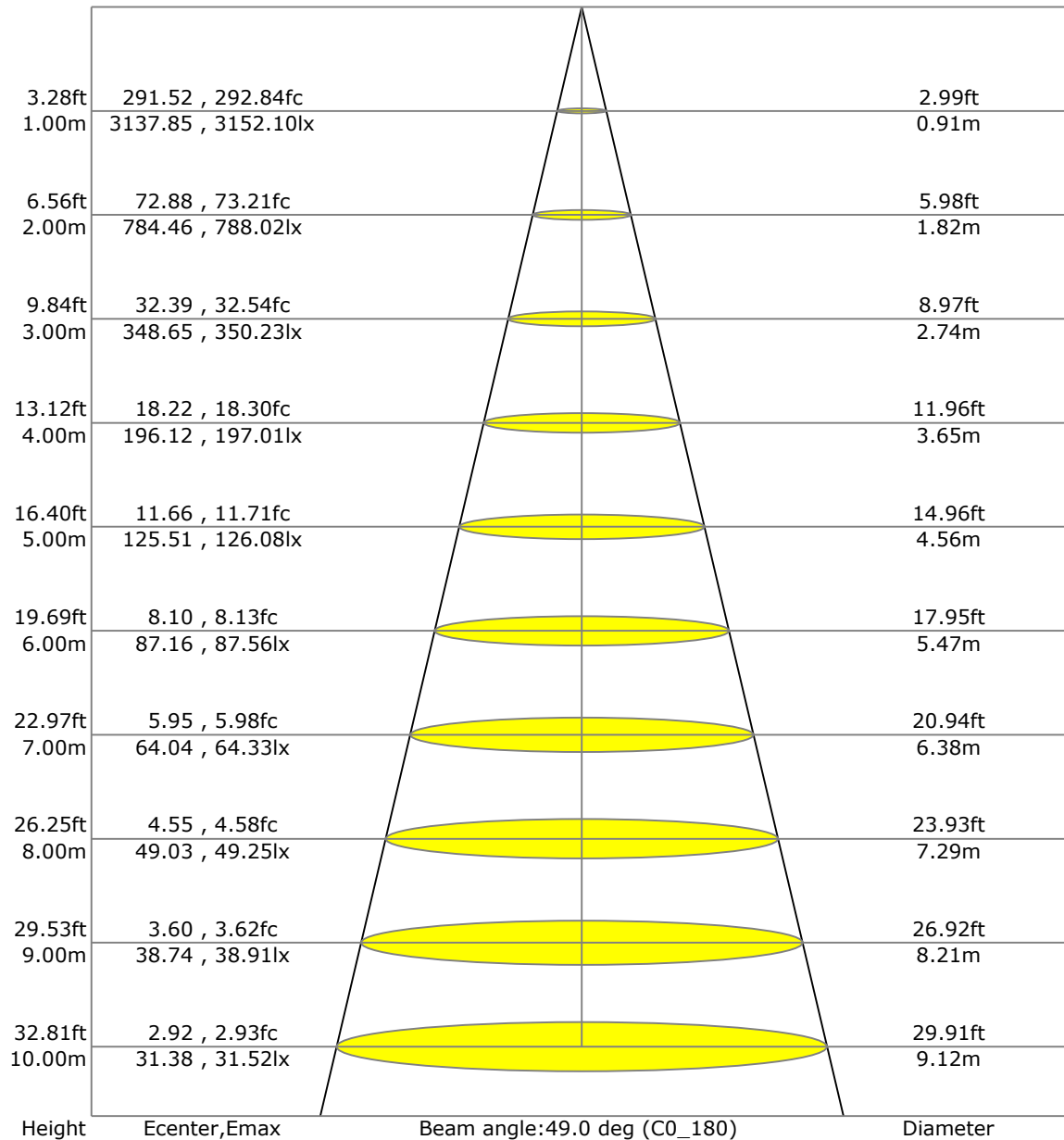
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Temperature: 25
Operators: QC01
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.78 m
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LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/1/7 18:11:19

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.78 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	12.15	12.20	12.35	12.39	12.63	12.14	12.19	12.34	12.38	12.62
3H	12.14	12.19	12.35	12.38	12.63	12.13	12.18	12.33	12.37	12.62
4H	12.13	12.18	12.34	12.38	12.62	12.11	12.16	12.32	12.36	12.61
6H	12.11	12.16	12.33	12.36	12.61	12.09	12.15	12.31	12.35	12.60
8H	12.10	12.15	12.32	12.36	12.61	12.09	12.14	12.30	12.34	12.59
12H	12.09	12.14	12.31	12.35	12.60	12.08	12.13	12.30	12.33	12.59
4H 2H	12.35	12.40	12.56	12.60	12.85	12.44	12.49	12.65	12.69	12.94
3H	12.35	12.41	12.58	12.61	12.87	12.44	12.49	12.66	12.70	12.95
4H	12.34	12.39	12.57	12.60	12.86	12.42	12.47	12.65	12.69	12.94
6H	12.32	12.37	12.56	12.59	12.85	12.40	12.45	12.64	12.67	12.93
8H	12.31	12.36	12.55	12.58	12.85	12.39	12.44	12.63	12.66	12.93
12H	12.29	12.34	12.54	12.57	12.84	12.37	12.42	12.62	12.65	12.92
8H 4H	12.35	12.40	12.57	12.60	12.86	12.50	12.55	12.72	12.76	13.01
6H	12.31	12.35	12.56	12.59	12.87	12.48	12.52	12.73	12.76	13.03
8H	12.30	12.34	12.56	12.58	12.86	12.46	12.50	12.72	12.75	13.03
12H	12.28	12.32	12.55	12.57	12.86	12.44	12.48	12.71	12.74	13.02
12H 4H	12.32	12.37	12.57	12.60	12.87	12.54	12.58	12.78	12.81	13.08
6H	12.30	12.34	12.56	12.59	12.86	12.51	12.56	12.78	12.80	13.08

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ZONAL LUMINOUS FLUX TABLE

[illegible]

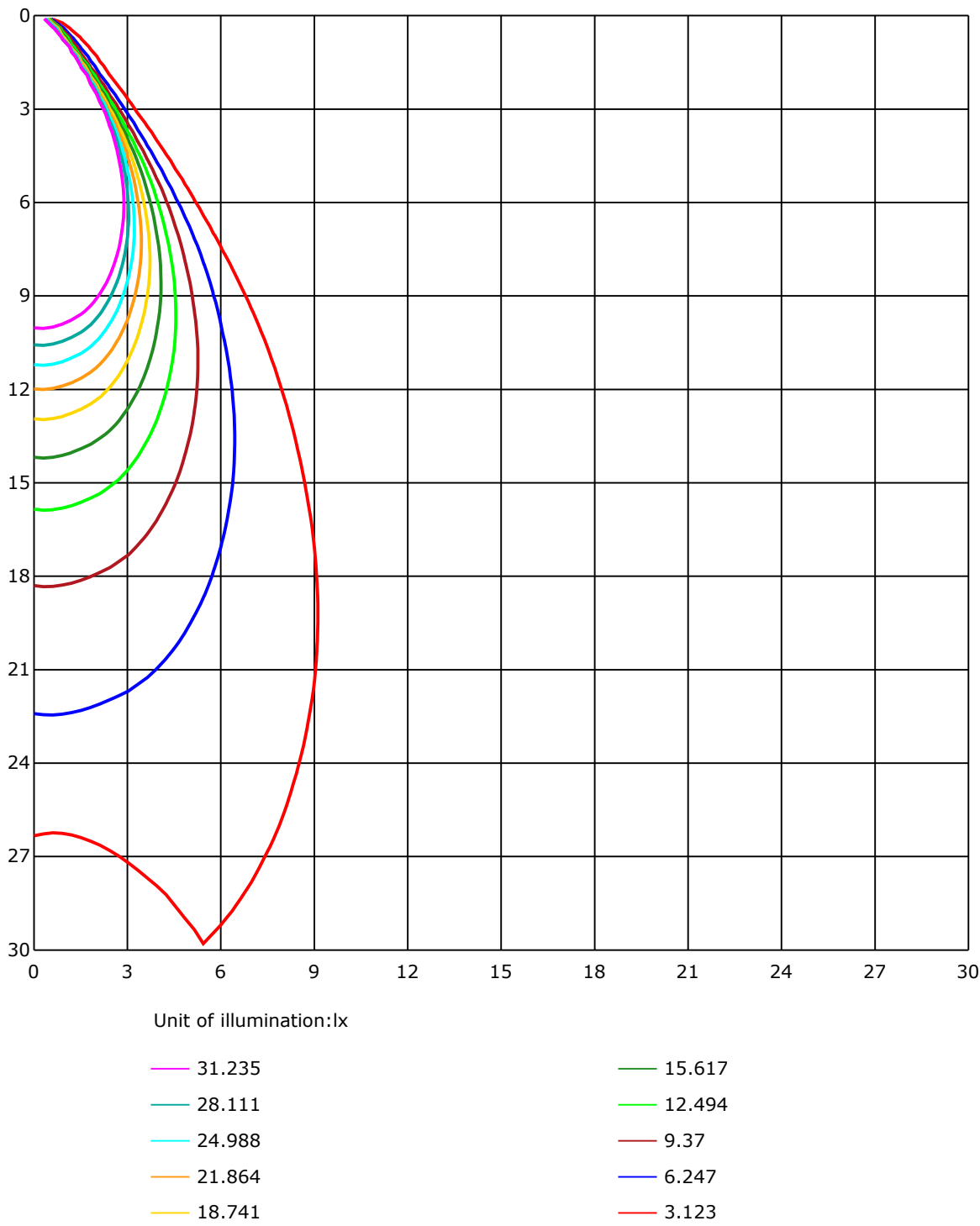
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Operators: QC01
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G Interval: 1.0 Deg
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Test Distance: 6.78 m
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SPACE ISOLX DIAGRAM



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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	3137.85	3102.13	3124.93	3109.99	3137.85	3102.13	3124.93	3109.99	3137.85	
G1	3151.82	3102.04	3131.09	3088.11	3124.24	3098.78	3117.9	3123.46	3151.82	
G2	3152.1	3083.33	3119.51	3070.23	3110.08	3095.74	3099.37	3134.63	3152.1	
G3	3142.17	3060.48	3114.54	3040.53	3083.1	3096.85	3075.33	3137.99	3142.17	
G4	3128.15	3033.96	3101.76	3013.83	3061.13	3089.49	3052.62	3130.63	3128.15	
G5	3106.18	3003.9	3092.43	2969.24	3025.73	3068.07	3033.73	3119.09	3106.18	
G6	3079.84	2966.94	3055.75	2931.73	2987.53	3041.13	3006.79	3105.76	3079.84	
G7	3050.51	2924.46	3030.05	2878.36	2941.33	3017.37	2969.79	3086.55	3050.51	
G8	3021.83	2866.27	2989.56	2818.32	2895.0	2980.22	2925.71	3063.93	3021.83	
G9	2974.71	2802.69	2940.78	2753.05	2840.85	2941.75	2883.32	3030.56	2974.71	
G10	2935.36	2735.03	2882.68	2680.6	2780.72	2907.36	2826.83	2992.31	2935.36	
G11	2870.64	2651.96	2821.54	2603.51	2717.65	2856.25	2761.32	2942.25	2870.64	
G12	2808.12	2569.04	2749.09	2523.3	2652.65	2798.79	2693.01	2891.41	2808.12	
G13	2732.91	2480.69	2677.52	2434.63	2572.25	2744.73	2621.58	2829.08	2732.91	
G14	2656.19	2387.97	2591.42	2341.86	2492.64	2674.58	2539.57	2764.86	2656.19	
G15	2568.94	2295.94	2505.78	2247.86	2408.65	2609.4	2461.01	2694.02	2568.94	
G16	2485.88	2200.37	2412.61	2148.79	2320.76	2534.28	2369.76	2622.87	2485.88	
G17	2395.74	2101.4	2323.01	2047.66	2229.79	2459.77	2283.76	2547.66	2395.74	
G18	2298.19	2001.92	2223.08	1944.37	2136.11	2385.16	2185.98	2465.75	2298.19	
G19	2200.05	1901.94	2127.69	1841.31	2040.86	2298.14	2092.3	2380.89	2200.05	
G20	2104.62	1801.32	2023.44	1743.58	1947.64	2209.47	1993.65	2285.64	2104.62	
G21	2003.99	1702.95	1921.43	1641.49	1851.06	2118.27	1900.2	2188.65	2003.99	
G22	1905.8	1600.02	1824.67	1541.73	1752.96	2032.4	1801.82	2094.41	1905.8	
G23	1807.71	1496.55	1728.0	1440.93	1651.23	1934.99	1707.31	2001.42	1807.71	
G24	1704.51	1390.54	1628.06	1333.73	1551.25	1839.43	1608.62	1904.43	1704.51	
G25	1602.87	1289.23	1527.07	1235.13	1451.82	1741.01	1509.51	1812.26	1602.87	
G26	1500.59	1188.05	1425.16	1130.46	1351.06	1640.02	1411.92	1716.41	1500.59	
G27	1396.57	1087.98	1326.79	1031.99	1247.95	1538.79	1315.52	1621.03	1396.57	
G28	1295.44	988.09	1223.31	931.32	1150.08	1434.4	1214.76	1524.13	1295.44	
G29	1191.96	893.49	1125.67	833.36	1050.38	1332.67	1115.29	1423.69	1191.96	
G30	1093.13	801.14	1026.47	739.91	954.4	1229.52	1015.58	1322.14	1093.13	
G31	997.15	715.59	927.96	652.71	856.44	1129.86	918.63	1219.54	997.15	
G32	908.57	637.44	833.64	569.69	768.27	1031.62	822.24	1119.65	908.57	
G33	820.4	561.69	743.22	491.26	684.61	933.89	731.31	1020.54	820.4	
G34	736.46	487.59	659.65	415.14	606.19	842.55	645.3	923.78	736.46	
G35	657.67	417.35	574.47	343.43	526.29	754.43	566.19	830.42	657.67	
G36	578.65	352.99	490.48	283.03	451.55	670.77	485.79	741.24	578.65	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2025/1/7 18:11:19

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

Test Distance: 6.78 m

Remarks:

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	499.72	298.2	411.88	232.32	384.39	591.66	407.46	653.39	499.72	
G38	425.94	251.72	342.97	192.19	325.04	513.01	337.68	567.85	425.94	
G39	360.44	212.24	284.82	158.87	275.95	441.89	280.22	484.14	360.44	
G40	304.63	178.31	236.32	131.19	235.13	376.02	231.18	408.38	304.63	
G41	255.58	150.36	196.7	108.99	198.72	318.19	191.23	340.99	255.58	
G42	213.29	126.55	163.92	91.06	168.7	268.82	157.21	282.94	213.29	
G43	178.5	106.78	136.85	77.0	143.51	227.22	130.23	235.45	178.5	
G44	150.45	90.83	115.06	66.75	123.2	191.69	108.67	196.56	150.45	
G45	126.51	77.92	98.79	58.1	106.32	162.36	91.39	164.25	126.51	
G46	106.92	67.57	85.36	51.81	92.63	138.5	78.15	138.18	106.92	
G47	90.83	59.58	74.97	46.24	81.46	119.1	67.53	117.54	90.83	
G48	78.15	52.77	66.88	42.02	72.81	102.69	58.98	101.08	78.15	
G49	67.57	46.93	60.72	38.52	65.5	89.45	52.45	87.71	67.57	
G50	59.62	42.52	55.39	35.63	59.8	79.11	46.66	77.18	59.62	
G51	52.86	38.89	51.3	33.19	54.79	71.02	42.66	69.23	52.86	
G52	47.21	35.95	47.58	30.98	50.89	64.4	39.21	62.84	47.21	
G53	42.61	33.28	44.31	28.91	47.03	58.75	36.36	57.51	42.61	
G54	39.07	30.98	41.65	27.17	44.04	53.92	33.79	53.23	39.07	
G55	36.04	29.05	39.3	25.51	41.42	49.97	31.58	49.74	36.04	
G56	33.65	27.31	36.96	24.13	38.75	46.06	29.6	45.88	33.65	
G57	31.35	25.74	34.98	22.52	36.41	43.07	28.04	43.12	31.35	
G58	29.28	24.18	33.1	21.33	34.34	40.5	26.25	40.68	29.28	
G59	27.31	22.66	31.53	20.04	32.45	38.02	24.78	38.57	27.31	
G60	25.65	21.28	29.97	18.94	30.75	35.67	23.35	36.54	25.65	
G61	24.13	20.09	28.5	17.84	29.01	33.65	22.16	34.52	24.13	
G62	22.66	18.85	27.03	16.73	27.58	31.81	20.82	32.73	22.66	
G63	21.33	17.74	25.74	15.63	26.02	30.02	19.67	31.17	21.33	
G64	20.09	16.5	24.36	14.62	24.73	28.45	18.57	29.7	20.09	
G65	18.8	15.45	23.08	13.56	23.31	26.89	17.42	28.27	18.8	
G66	17.61	14.3	21.83	12.69	22.02	25.33	16.32	26.8	17.61	
G67	16.36	13.15	20.69	11.68	20.69	24.09	15.26	25.37	16.36	
G68	15.4	12.04	19.31	10.71	19.44	22.8	14.16	24.13	15.4	
G69	14.2	10.99	18.2	9.79	18.16	21.33	13.06	22.8	14.2	
G70	13.06	9.79	17.28	8.83	16.92	20.09	12.04	21.47	13.06	
G71	11.81	8.73	15.95	7.91	15.63	18.89	11.03	20.13	11.81	
G72	10.85	7.68	14.71	6.85	14.53	17.65	9.98	18.98	10.85	
G73	9.65	6.48	13.56	5.79	13.28	16.5	8.87	17.74	9.65	

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: 6.78 m

Remarks:

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