

Report No.:

Test Time: 2025/7/17 11:16:04

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP150CT075H86-15°-8W
Lamp Type:
Luminous Width: 63 mm
Luminous Length: 63 mm
Luminous Height: 65 mm

Voltage(V): 219.90 V
Current(A): 0.0420 A
Power(W): 8.66 W
Power Factor: 0.9310
Lamp Luminous Flux: 715.77

Photometric Results

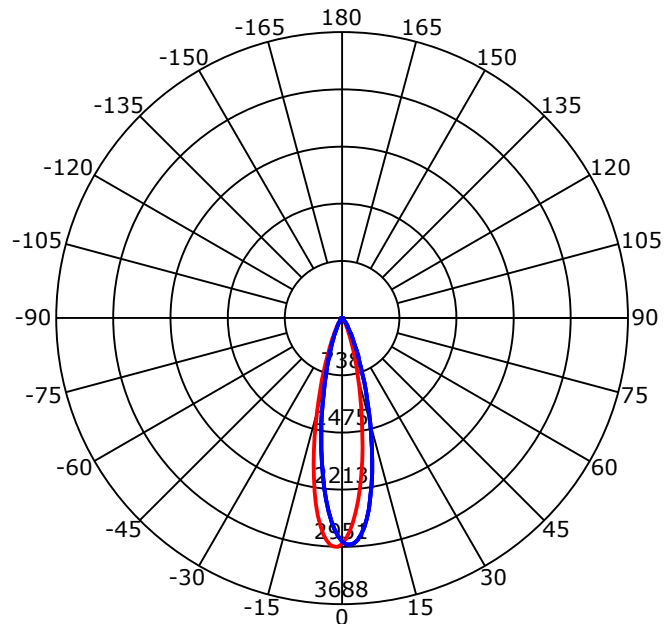
CIE Class: Direct
Luminaire Luminous Flux: 715.7698 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 82.62 lm/W
Beam Angle(50%) C0-180,C90-270: 23.8,25.2
Field Angle(10%) C0-180,C90-270: 47.0,50.3
S/MH C0-180,C90-270: 0.425,0.425

Max. Intensity: 2950.56 cd
Max.Intensity Angle: C=315 Gamma=0
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 2912.05 cd
Effective Luminous Flux: 592.49 lm
ERP(ϕ use)(120deg): 711.73 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 23.8 deg,25.2 deg

C0-180 — C90-270 —

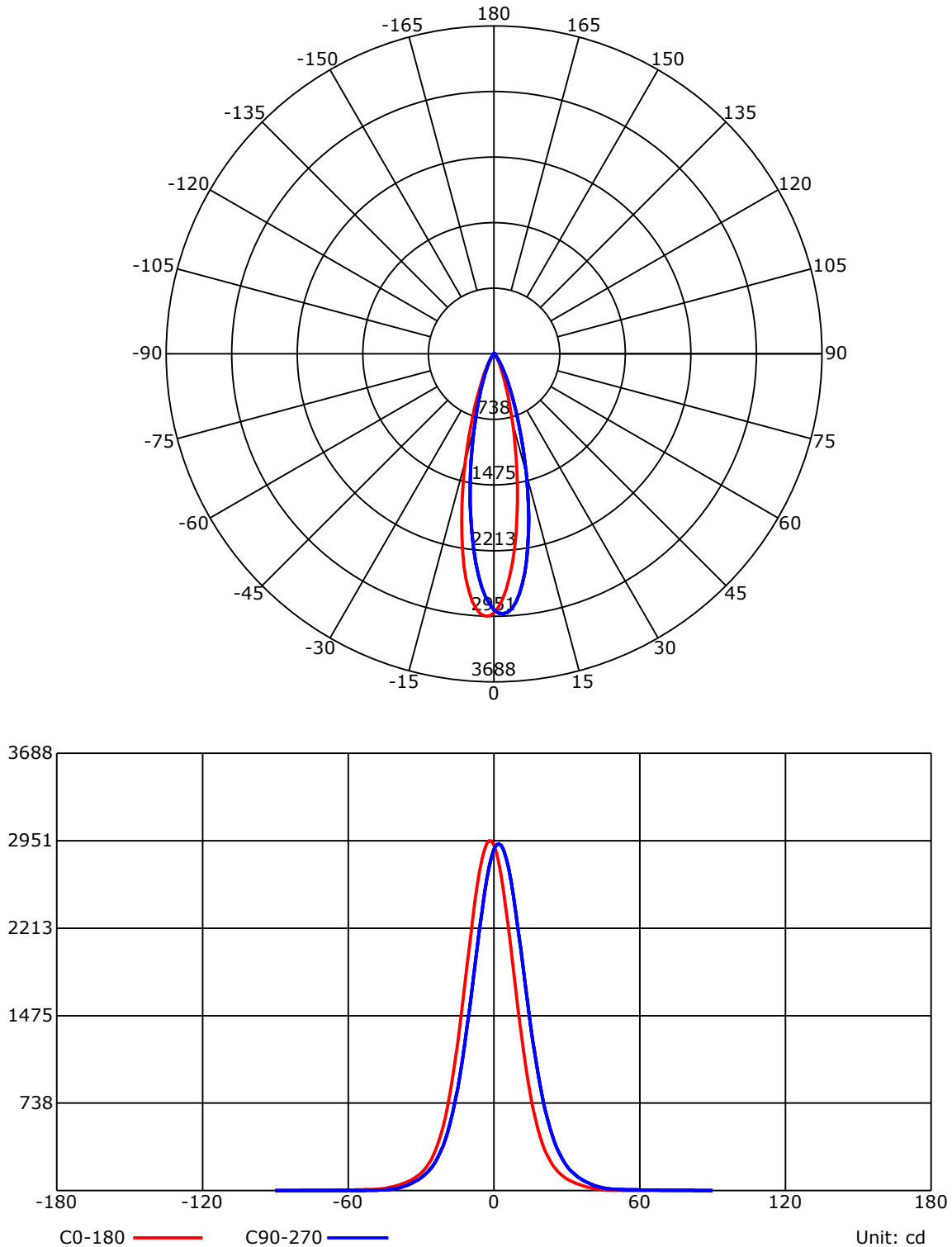
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/7/17 11:16:04

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

Report No.:

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Luminous Intensity Distribution Curve



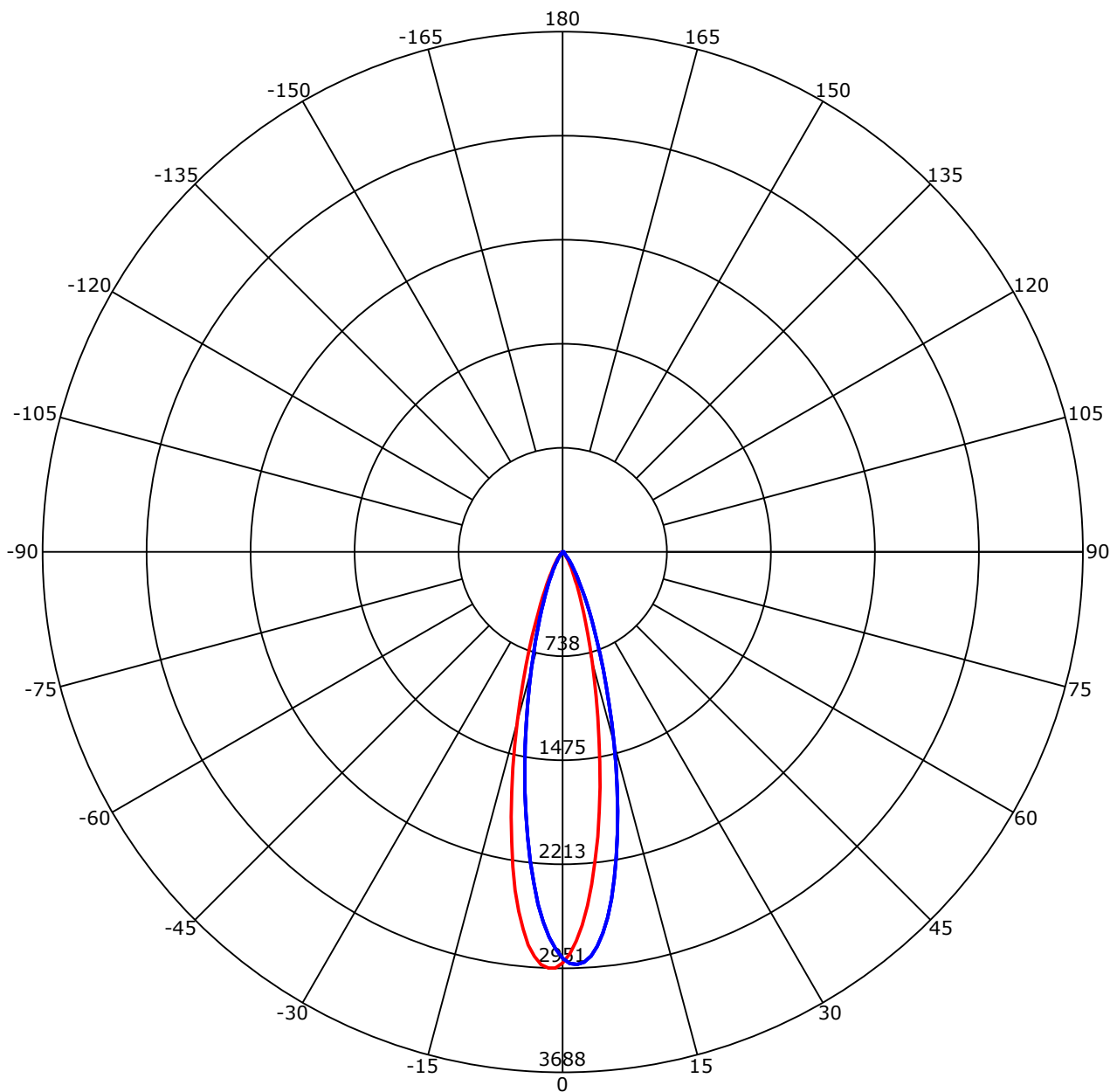
C Range: 0 - 360 Deg
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Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/7/17 11:16:04

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



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: 2025/7/17 11:16:04

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

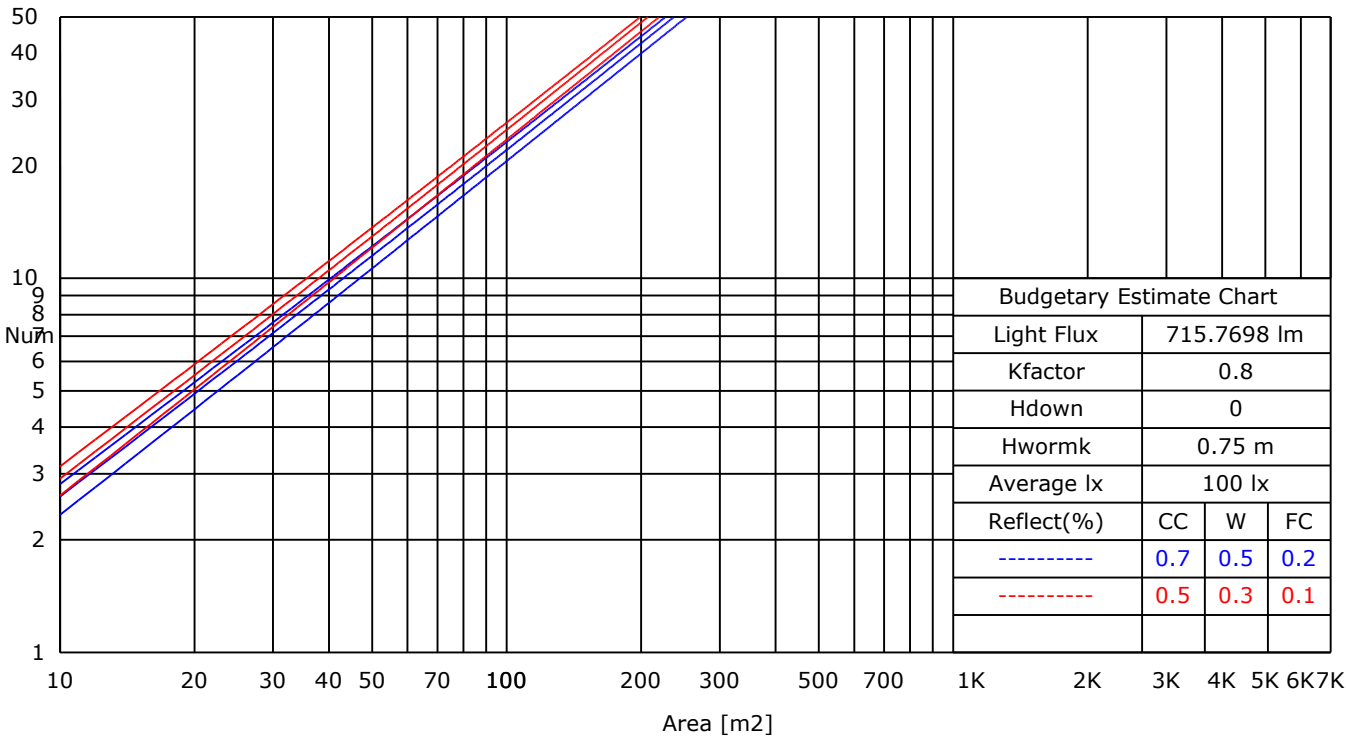
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UTILIZATION FACTORS TABLE

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	0.91	0.88	0.85	0.90	0.87	0.84	0.88	0.84	0.81	0.84	0.80	0.76	0.79	0.75	0.71	0.66
2	0.85	0.82	0.80	0.85	0.81	0.79	0.83	0.79	0.76	0.80	0.76	0.72	0.76	0.71	0.67	0.62
3	0.82	0.79	0.78	0.82	0.79	0.76	0.80	0.76	0.73	0.77	0.73	0.69	0.74	0.69	0.65	0.61
4	0.80	0.77	0.76	0.79	0.76	0.74	0.78	0.74	0.71	0.75	0.71	0.67	0.72	0.67	0.63	0.59
5	0.78	0.76	0.74	0.77	0.75	0.73	0.76	0.72	0.69	0.74	0.69	0.66	0.71	0.66	0.62	0.58
6	0.76	0.74	0.73	0.75	0.73	0.71	0.74	0.70	0.68	0.72	0.68	0.65	0.69	0.65	0.61	0.57
7	0.74	0.73	0.72	0.74	0.71	0.70	0.72	0.69	0.67	0.70	0.66	0.63	0.68	0.63	0.60	0.56
8	0.73	0.71	0.70	0.72	0.70	0.69	0.71	0.68	0.65	0.69	0.65	0.62	0.67	0.62	0.59	0.55
9	0.72	0.70	0.69	0.71	0.69	0.68	0.70	0.66	0.64	0.68	0.64	0.61	0.66	0.61	0.58	0.54
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



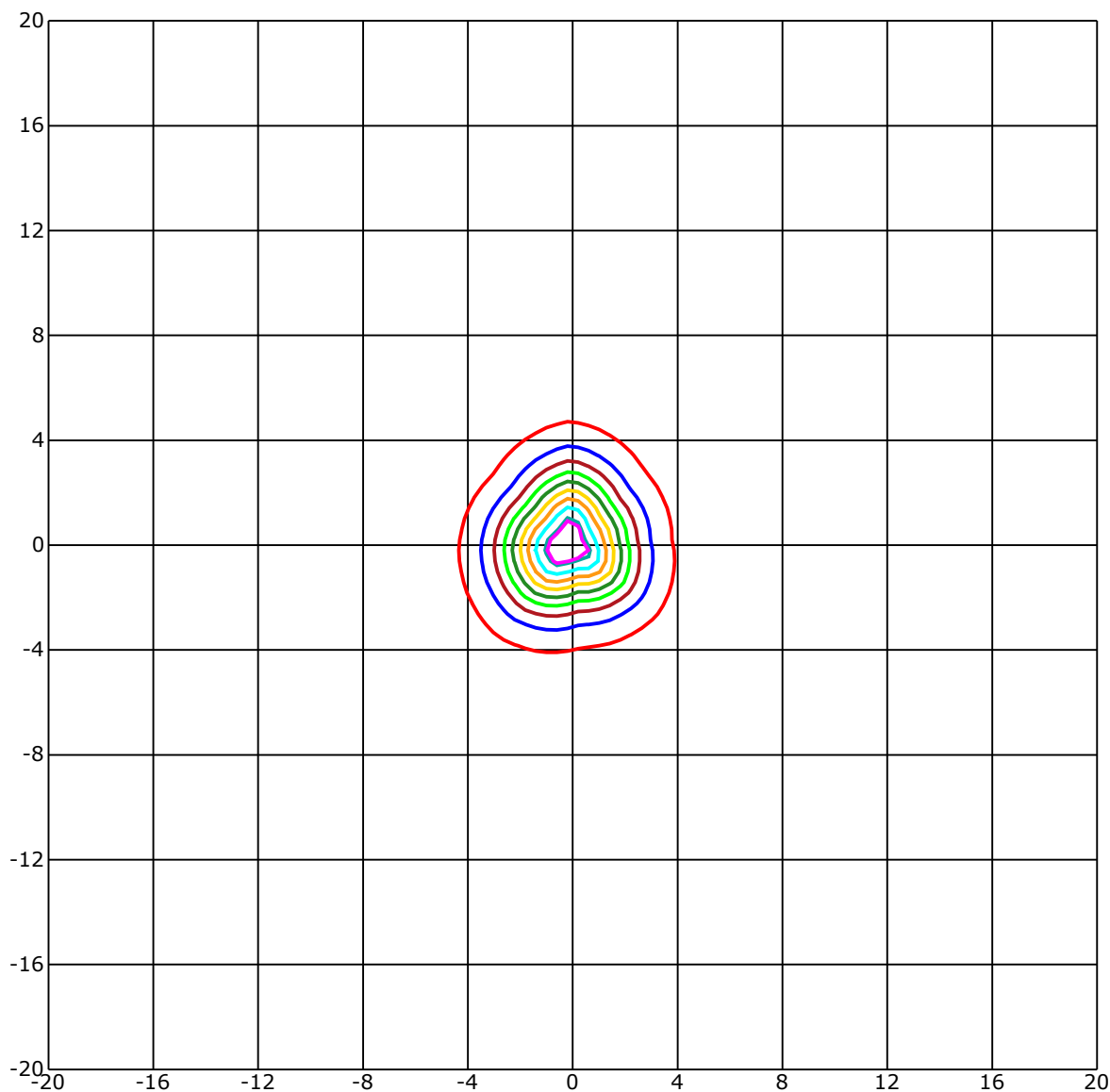
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Temperature: 25
Operators: QC01
Test Date: 2025/7/17 11:16:04

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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ISOLX DIAGRAM



C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/7/17 11:16:04

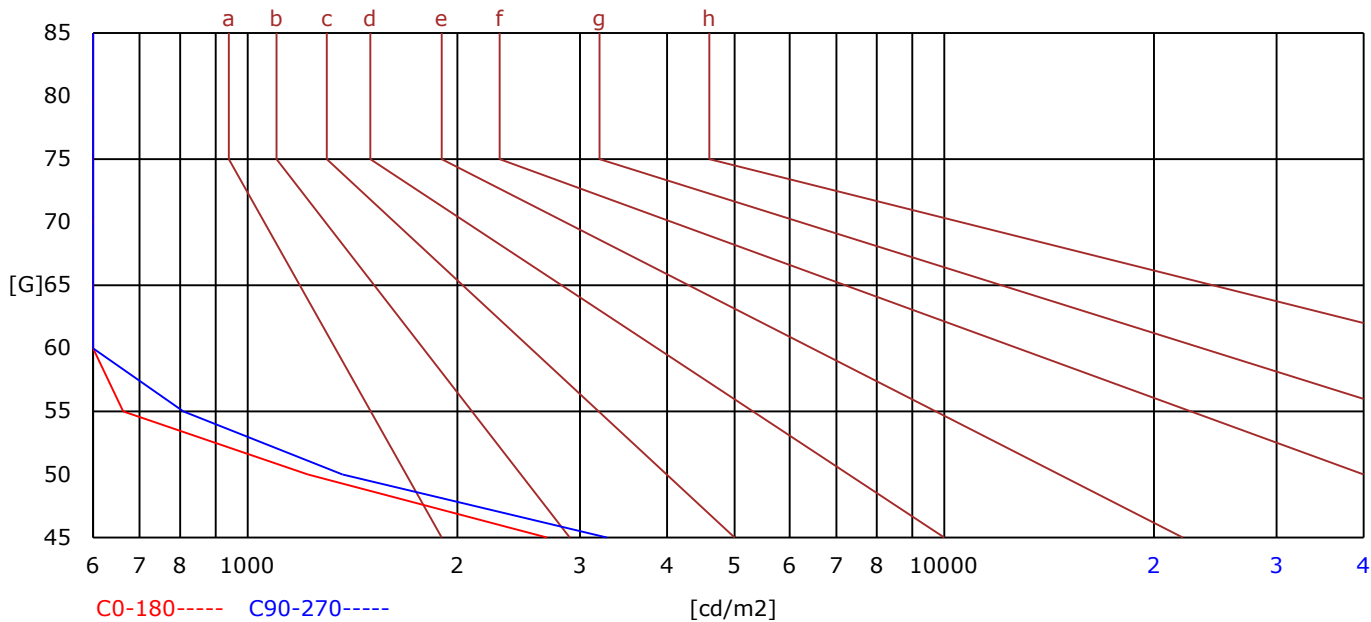
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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Humidity: 60
Test Distance: 6.87 m
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	2691	1221	663	309	84	0	0	0	0
C90	3279	1369	809	499	225	61	0	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



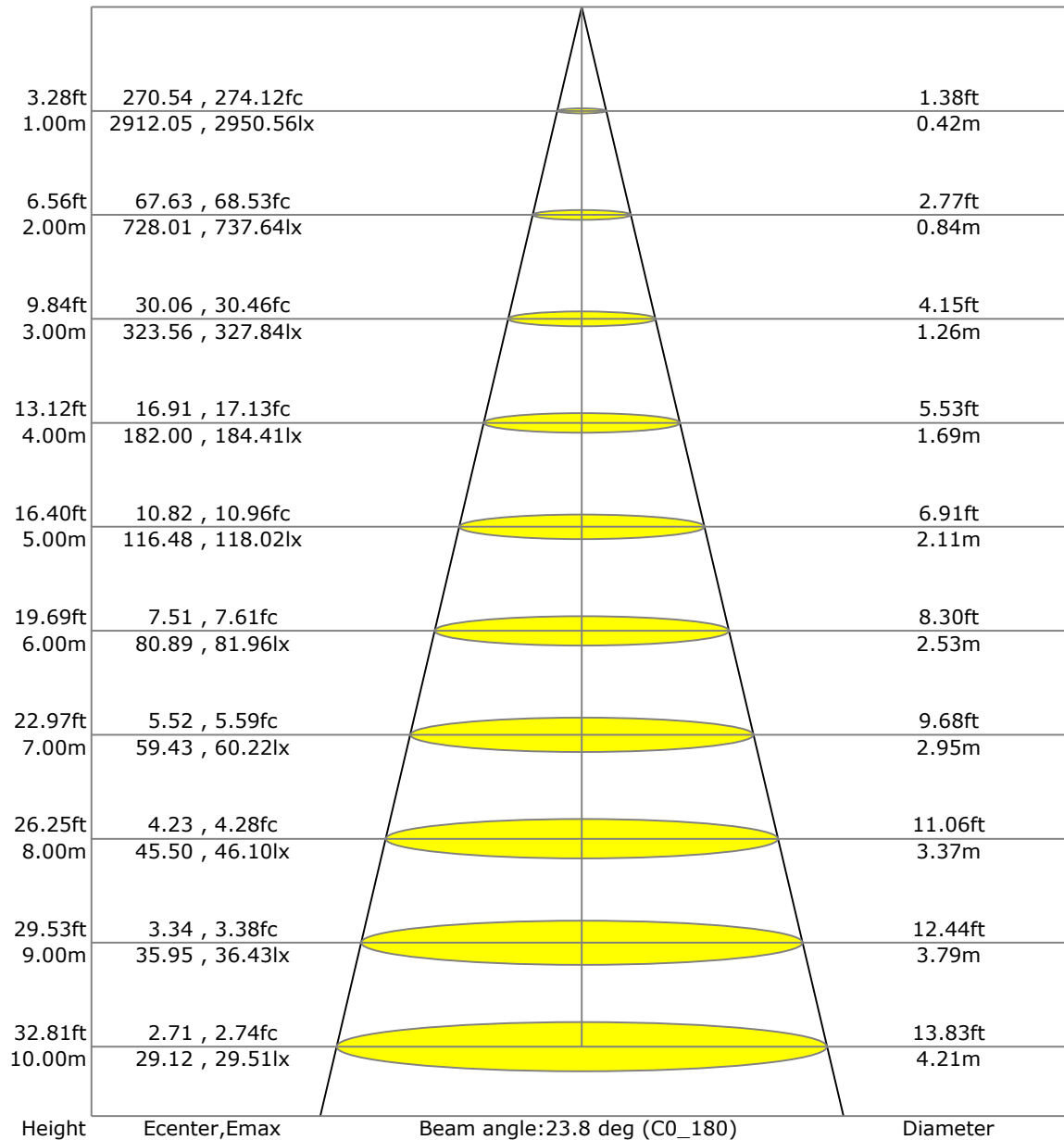
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Temperature: 25
Operators: QC01
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
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LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 25
 Operators: QC01
 Test Date: 2025/7/17 11:16:04

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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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	6.48	6.54	6.68	6.73	6.97	6.85	6.91	7.05	7.10	7.34
3H	6.47	6.53	6.68	6.72	6.97	6.83	6.89	7.04	7.08	7.33
4H	6.46	6.52	6.67	6.72	6.97	6.82	6.88	7.03	7.07	7.32
6H	6.45	6.51	6.67	6.71	6.96	6.80	6.86	7.02	7.06	7.32
8H	6.44	6.50	6.66	6.71	6.96	6.79	6.86	7.01	7.06	7.31
12H	6.43	6.50	6.66	6.70	6.96	6.79	6.85	7.01	7.05	7.31
4H 2H	6.45	6.51	6.66	6.70	6.95	7.26	7.32	7.47	7.51	7.76
3H	6.43	6.49	6.65	6.69	6.95	7.23	7.30	7.46	7.50	7.76
4H	6.42	6.48	6.65	6.69	6.95	7.22	7.28	7.45	7.49	7.75
6H	6.40	6.46	6.64	6.69	6.95	7.19	7.26	7.43	7.48	7.74
8H	6.40	6.46	6.64	6.68	6.95	7.18	7.24	7.43	7.47	7.74
12H	6.38	6.44	6.63	6.68	6.95	7.17	7.23	7.42	7.46	7.73
8H 4H	6.42	6.48	6.64	6.69	6.94	7.60	7.67	7.82	7.87	8.12
6H	6.36	6.42	6.62	6.66	6.94	7.61	7.67	7.87	7.91	8.18
8H	6.35	6.41	6.62	6.66	6.94	7.59	7.65	7.86	7.90	8.18
12H	6.34	6.40	6.62	6.65	6.94	7.58	7.63	7.85	7.89	8.17
12H 4H	6.37	6.43	6.62	6.66	6.93	7.82	7.88	8.07	8.11	8.38
6H	6.35	6.40	6.61	6.65	6.93	7.81	7.87	8.07	8.11	8.39

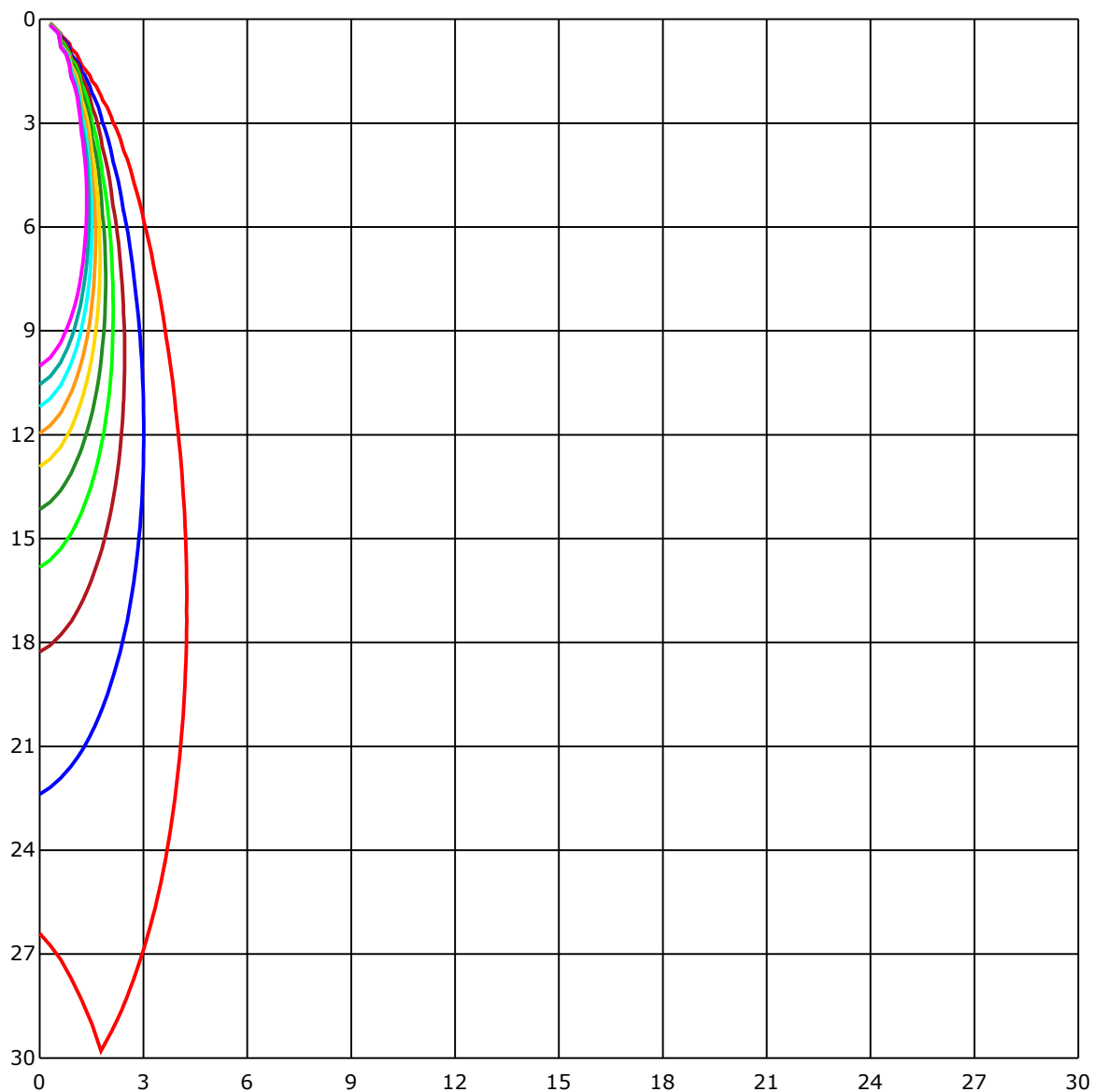
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SPACE ISOLX DIAGRAM



Unit of illumination:lx

29.062	14.531
26.156	11.625
23.25	8.719
20.343	5.812
17.437	2.906

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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	2912.05	2873.39	2879.06	2950.56	2912.05	2873.39	2879.06	2950.56	2912.05	
G1	2848.0	2808.12	2917.34	2929.61	2949.52	2902.37	2815.3	2948.49	2848.0	
G2	2757.15	2727.79	2924.7	2880.8	2949.62	2907.9	2732.09	2900.58	2757.15	
G3	2649.35	2626.32	2910.87	2811.76	2928.66	2879.96	2627.31	2834.03	2649.35	
G4	2513.14	2504.65	2871.08	2710.9	2872.69	2833.47	2501.86	2743.46	2513.14	
G5	2364.33	2364.66	2805.1	2589.98	2796.84	2761.4	2353.62	2634.3	2364.33	
G6	2198.53	2213.68	2716.18	2444.94	2687.86	2662.38	2199.33	2501.11	2198.53	
G7	2034.23	2049.43	2610.6	2290.56	2564.63	2542.31	2036.69	2347.43	2034.23	
G8	1858.71	1889.58	2482.7	2130.89	2421.39	2412.33	1879.05	2184.84	1858.71	
G9	1686.2	1722.64	2339.22	1959.76	2259.5	2265.22	1713.96	2020.12	1686.2	
G10	1511.72	1563.26	2190.55	1786.97	2085.91	2109.23	1550.14	1852.71	1511.72	
G11	1349.5	1404.91	2033.71	1621.5	1914.26	1945.55	1393.91	1678.98	1349.5	
G12	1196.91	1253.97	1874.76	1452.86	1740.29	1777.34	1245.43	1511.86	1196.91	
G13	1053.62	1113.8	1713.81	1290.93	1569.91	1613.38	1105.45	1353.61	1053.62	
G14	922.75	983.87	1558.21	1140.7	1403.49	1456.73	977.54	1205.46	922.75	
G15	807.16	865.69	1404.2	1002.13	1243.45	1304.43	859.27	1065.42	807.16	
G16	700.73	761.76	1260.72	873.76	1094.31	1164.73	754.4	936.58	700.73	
G17	606.1	666.14	1123.62	760.77	959.37	1027.95	659.06	823.4	606.1	
G18	522.56	580.76	999.49	658.59	834.91	904.29	574.95	715.69	522.56	
G19	452.48	505.15	885.04	569.19	724.71	790.69	500.38	620.97	452.48	
G20	390.84	440.02	780.07	491.7	625.74	690.68	435.58	538.04	390.84	
G21	337.84	384.28	684.69	425.39	540.64	601.24	378.52	466.82	337.84	
G22	291.77	334.67	601.9	368.18	465.36	524.26	328.87	404.05	291.77	
G23	253.82	292.2	528.32	318.58	402.02	454.6	285.97	350.96	253.82	
G24	219.37	255.15	463.95	275.16	346.61	395.13	248.54	304.23	219.37	
G25	191.38	221.4	404.38	237.68	298.57	343.17	215.74	264.82	191.38	
G26	166.75	193.04	353.69	206.11	257.74	298.61	188.32	231.08	166.75	
G27	146.22	169.2	308.38	179.77	223.38	259.82	164.2	202.43	146.22	
G28	128.0	148.81	269.92	155.7	194.59	226.69	143.67	177.18	128.0	
G29	112.52	129.6	235.98	135.5	170.24	197.71	125.26	156.32	112.52	
G30	98.78	113.7	206.77	118.32	149.52	172.5	109.17	137.25	98.78	
G31	87.13	100.15	181.38	103.6	131.68	151.22	94.77	121.34	87.13	
G32	76.27	88.26	159.95	90.9	116.72	132.95	82.17	107.14	76.27	
G33	66.83	76.98	140.6	79.57	103.13	116.62	71.17	94.58	66.83	
G34	58.76	67.63	123.94	69.76	90.67	102.18	61.26	83.73	58.76	
G35	51.59	59.18	108.65	60.93	80.19	89.39	52.06	74.38	51.59	
G36	44.27	51.11	95.95	52.72	71.03	78.72	43.52	65.51	44.27	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2025/7/17 11:16:04

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	37.95	43.42	83.59	45.59	62.96	69.24	35.73	57.86	37.95	
G38	32.14	36.81	72.78	38.94	55.6	61.03	28.98	50.41	32.14	
G39	26.67	30.73	62.91	33.27	48.52	53.57	23.36	43.42	26.67	
G40	21.8	25.3	53.8	27.66	42.52	46.54	18.64	37.57	21.8	
G41	17.51	20.15	45.17	22.8	37.0	40.16	14.58	32.52	17.51	
G42	13.73	15.81	37.95	18.55	31.53	34.31	11.47	27.28	13.73	
G43	10.81	12.32	31.67	14.58	26.95	28.98	9.01	23.13	10.81	
G44	8.5	9.86	26.57	11.56	22.89	24.59	7.46	19.59	8.5	
G45	6.51	7.55	22.28	9.2	19.4	20.86	6.04	16.9	6.51	
G46	5.0	6.04	19.02	7.32	16.61	17.75	4.96	14.49	5.0	
G47	4.2	4.86	16.57	5.85	14.44	15.29	3.96	12.7	4.2	
G48	3.59	4.25	14.58	4.67	12.65	13.5	3.49	11.28	3.59	
G49	2.93	3.59	12.74	3.96	11.28	11.75	2.97	10.29	2.93	
G50	2.5	3.11	11.47	3.49	10.24	10.67	2.64	9.68	2.5	
G51	2.27	2.69	10.57	3.11	9.53	9.77	2.17	8.92	2.27	
G52	1.89	2.41	9.86	2.69	8.87	9.2	2.03	8.4	1.89	
G53	1.51	2.12	8.97	2.36	8.45	8.59	1.7	7.83	1.51	
G54	1.23	1.89	8.35	2.12	7.69	8.02	1.56	7.22	1.23	
G55	1.09	1.51	7.79	1.84	7.22	7.5	1.23	6.75	1.09	
G56	0.85	1.27	7.41	1.7	6.65	7.17	1.18	6.32	0.85	
G57	0.76	0.99	6.89	1.46	6.47	6.7	1.06	6.14	0.76	
G58	0.66	0.8	6.56	1.13	5.95	6.28	0.94	5.66	0.66	
G59	0.57	0.76	6.23	1.13	5.52	5.85	0.76	5.24	0.57	
G60	0.38	0.61	5.95	0.99	5.24	5.43	0.57	4.96	0.38	
G61	0.28	0.42	5.43	0.76	5.0	5.1	0.47	4.81	0.28	
G62	0.28	0.33	5.1	0.61	4.67	4.86	0.47	4.44	0.28	
G63	0.28	0.28	4.91	0.57	4.39	4.58	0.35	4.34	0.28	
G64	0.0	0.21	4.81	0.38	4.25	4.44	0.24	4.15	0.0	
G65	0.0	0.14	4.48	0.38	4.11	4.25	0.14	4.01	0.0	
G66	0.0	0.12	4.29	0.38	3.87	4.06	0.14	3.73	0.0	
G67	0.0	0.09	4.11	0.33	3.68	3.87	0.14	3.49	0.0	
G68	0.0	0.05	3.96	0.09	3.49	3.63	0.09	3.45	0.0	
G69	0.0	0.0	3.78	0.07	3.4	3.4	0.12	3.26	0.0	
G70	0.0	0.0	3.73	0.08	3.07	3.4	0.14	3.21	0.0	
G71	0.0	0.0	3.45	0.09	3.02	3.21	0.09	3.02	0.0	
G72	0.0	0.0	3.45	0.0	2.88	3.11	0.09	2.74	0.0	
G73	0.0	0.0	3.16	0.0	2.93	2.93	0.0	2.6	0.0	

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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