

Report No.:

Test Time: 2025/6/19 17:45:39

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP221CT042.(B)-38°-7W
Lamp Type:
Luminous Width: 38 mm
Luminous Length: 38 mm
Luminous Height: 34 mm

Voltage(V): 219.80 V
Current(A): 0.0360 A
Power(W): 7.36 W
Power Factor: 0.9090
Lamp Luminous Flux: 514.14

Photometric Results

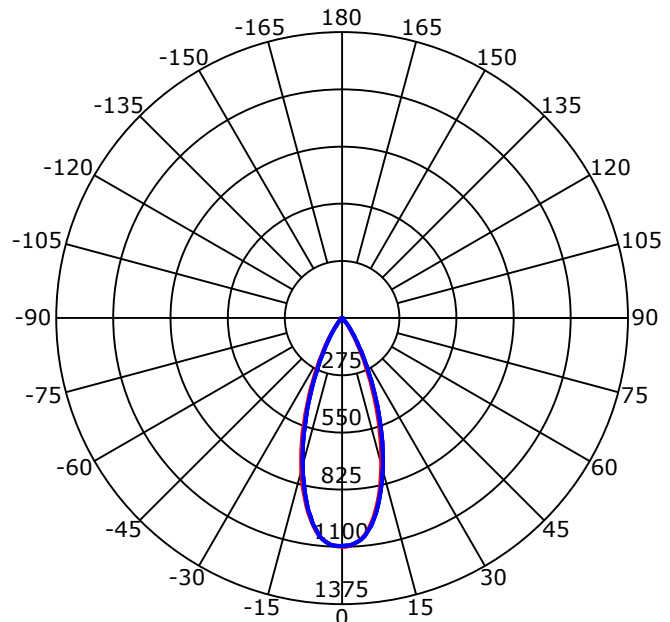
CIE Class: Direct
Luminaire Luminous Flux: 514.1417 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 69.90 lm/W
Beam Angle(50%) C0-180,C90-270: 38.6,38.8
Field Angle(10%) C0-180,C90-270: 65.4,66.0
S/MH C0-180,C90-270: 0.650,0.650

Max. Intensity: 1099.88 cd
Max.Intensity Angle: C=0 Gamma=1
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 1099.26 cd
Effective Luminous Flux: 469.22 lm
ERP(ϕ use)(120deg): 513.80 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 38.6 deg,38.8 deg

C0-180 — C90-270 —

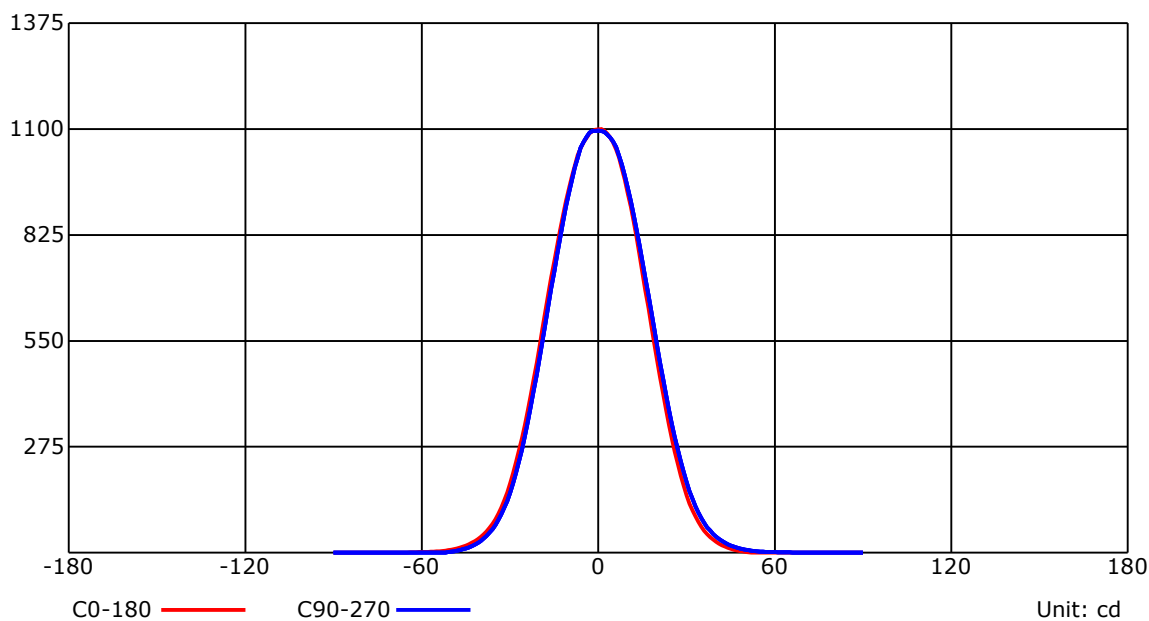
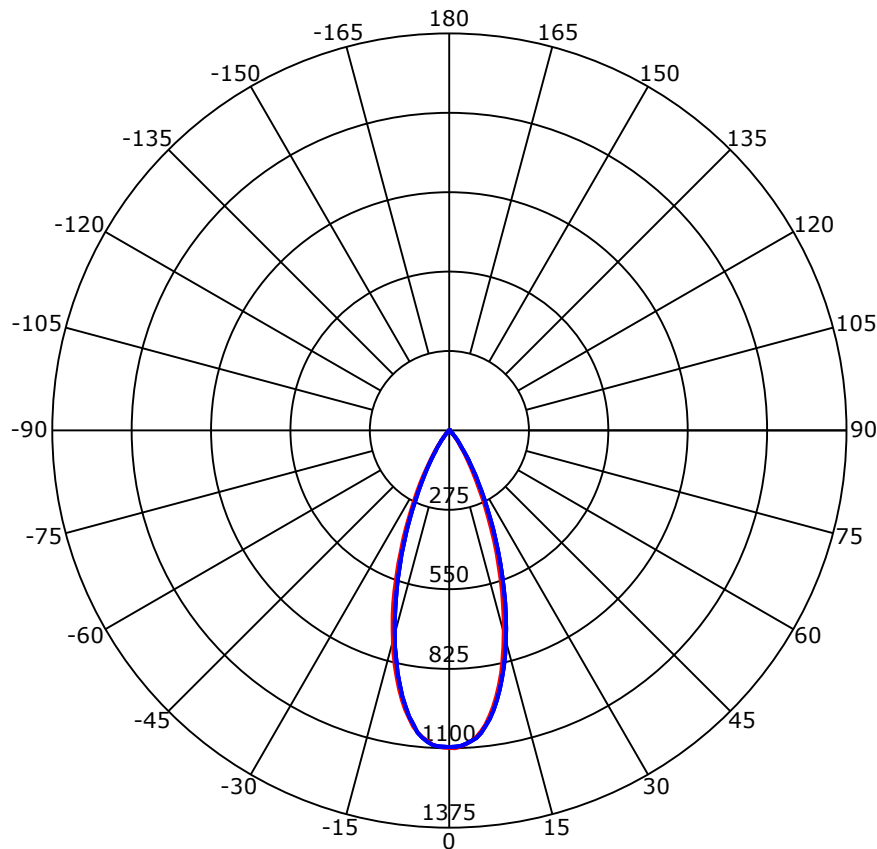
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/6/19 17:45:39

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.:

Test Time: 2025/6/19 17:45:39

Luminous Intensity Distribution Curve



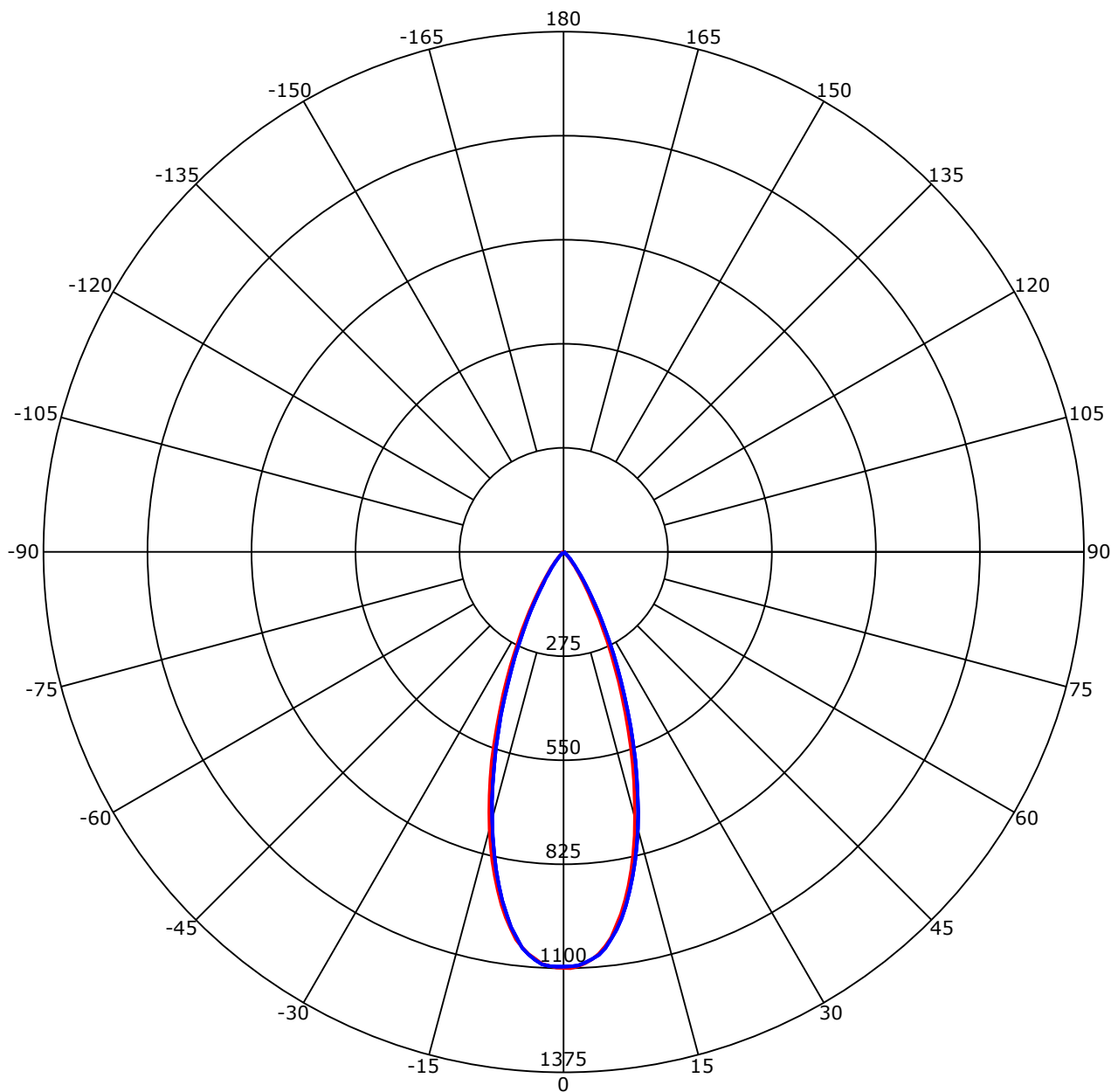
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Temperature: 25
Operators: QC01
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Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

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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: 2025/6/19 17:45:39

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

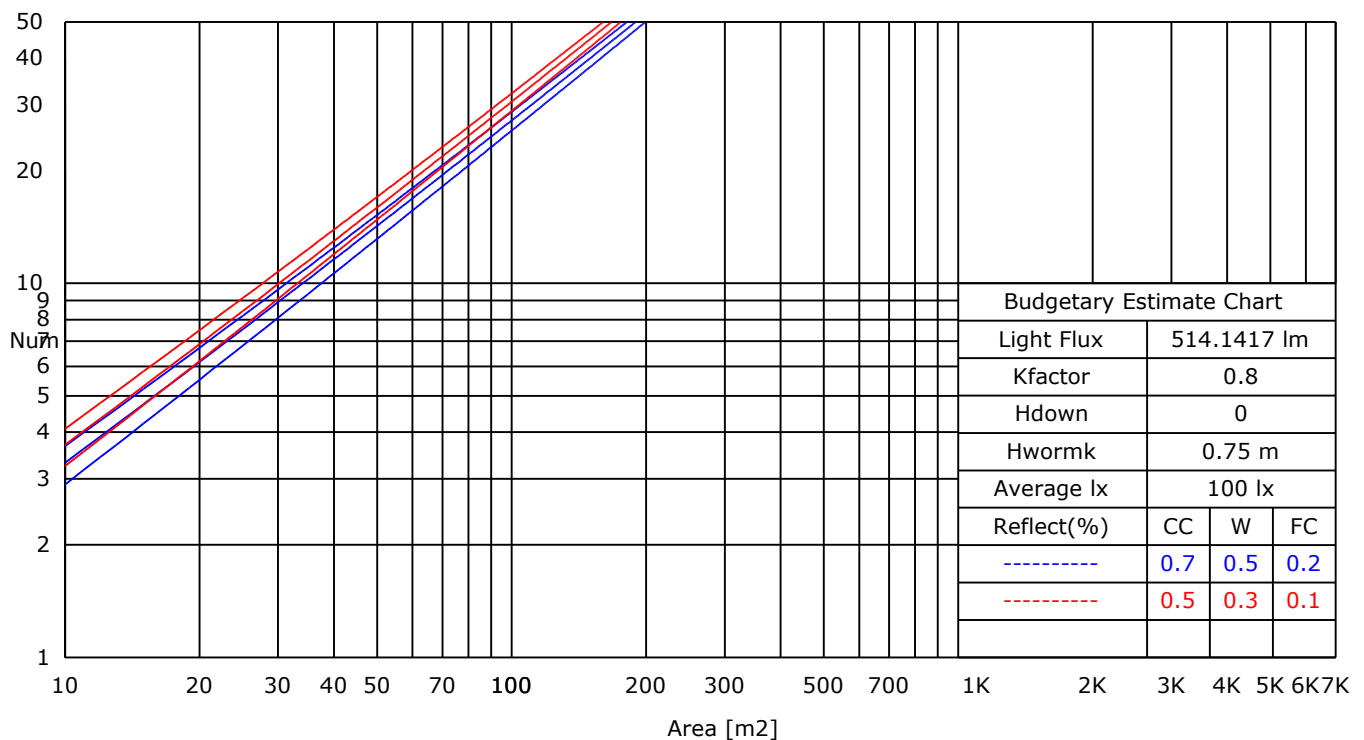
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UTILIZATION FACTORS TABLE

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	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	1.00	0.97	0.96	0.99	0.96	0.94	0.95	0.93	0.90	0.91	0.88	0.85	0.85	0.82	0.79	0.74
2	0.96	0.94	0.92	0.95	0.92	0.91	0.92	0.89	0.87	0.88	0.85	0.82	0.83	0.80	0.77	0.72
3	0.93	0.91	0.90	0.92	0.90	0.88	0.89	0.86	0.84	0.86	0.82	0.80	0.81	0.78	0.75	0.70
4	0.90	0.88	0.87	0.89	0.87	0.85	0.87	0.84	0.82	0.84	0.80	0.77	0.80	0.76	0.73	0.68
5	0.88	0.86	0.85	0.87	0.85	0.83	0.84	0.81	0.79	0.81	0.78	0.75	0.78	0.74	0.71	0.67
6	0.86	0.84	0.83	0.85	0.83	0.81	0.82	0.79	0.77	0.80	0.76	0.73	0.76	0.72	0.69	0.65
7	0.84	0.82	0.81	0.83	0.81	0.79	0.80	0.77	0.76	0.78	0.74	0.72	0.75	0.71	0.67	0.64
8	0.82	0.80	0.80	0.81	0.79	0.78	0.78	0.76	0.74	0.76	0.72	0.70	0.73	0.69	0.66	0.63
9	0.80	0.79	0.78	0.79	0.77	0.76	0.77	0.74	0.72	0.74	0.71	0.68	0.72	0.68	0.65	0.61
10	0.78	0.77	0.76	0.77	0.76	0.75	0.75	0.73	0.71	0.73	0.69	0.67	0.70	0.66	0.63	0.60

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



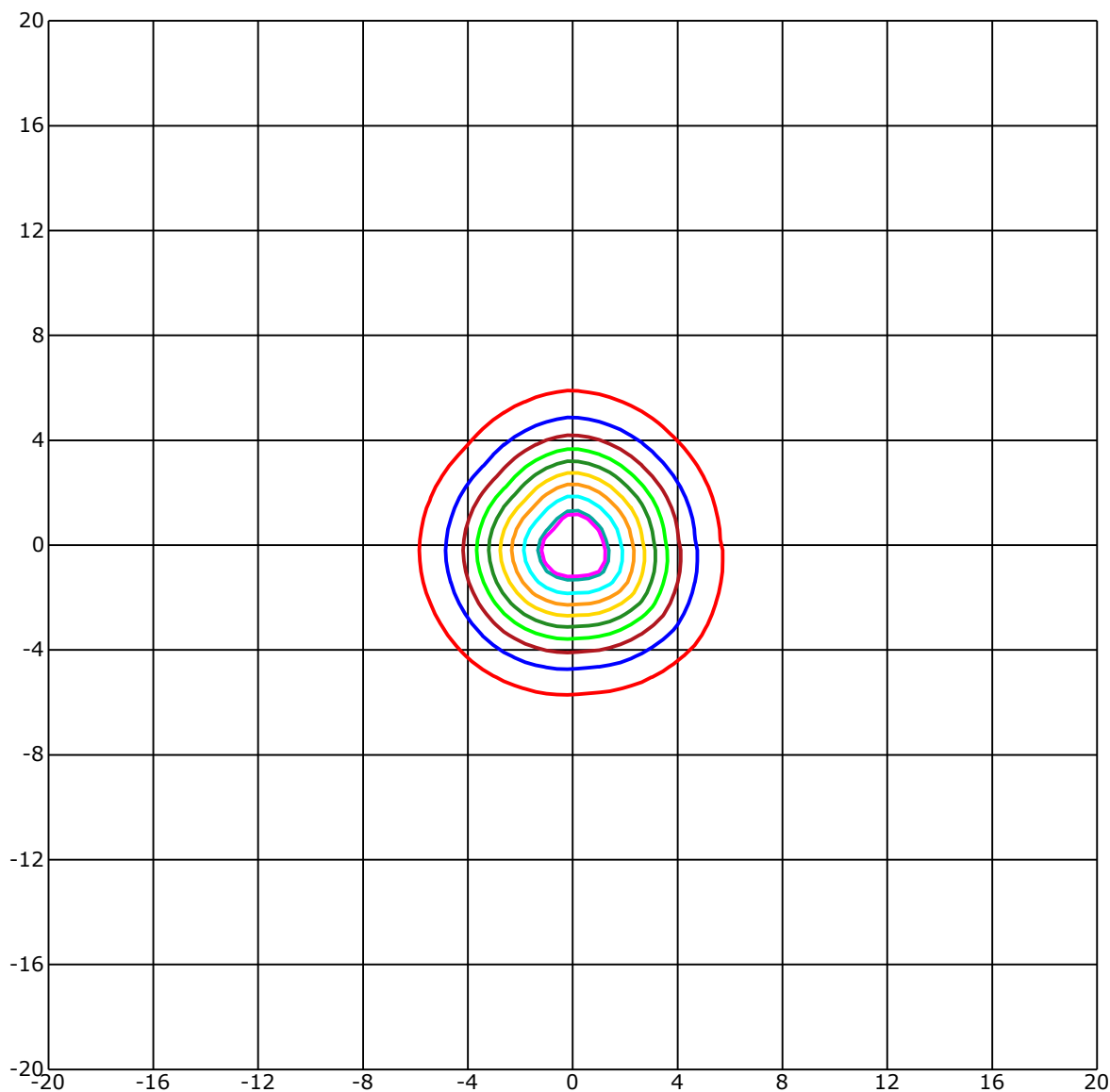
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/6/19 17:45:39

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



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

10.114(92%Emax)	5.497(50%Emax)
9.894(90%Emax)	4.397(40%Emax)
8.795(80%Emax)	3.298(30%Emax)
7.696(70%Emax)	2.199(20%Emax)
6.596(60%Emax)	1.099(10%Emax)

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C Interval: 45.0 Deg
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Operators: QC01
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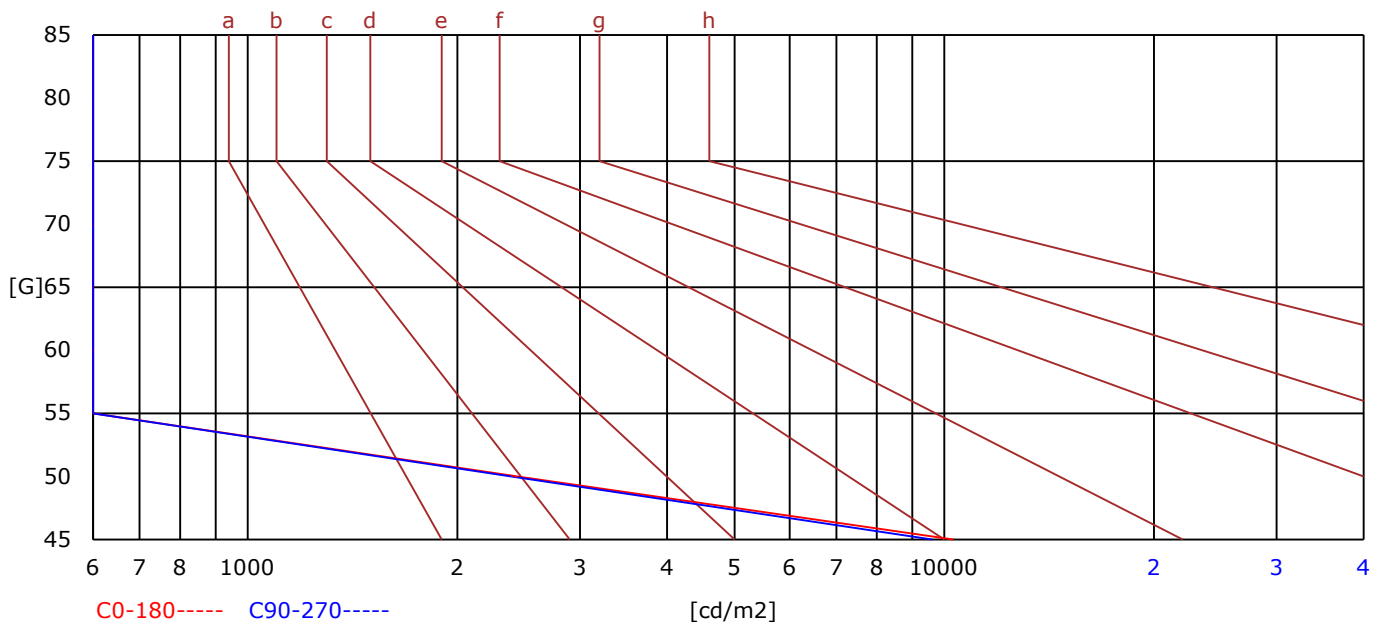
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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Humidity: 60
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Remarks:

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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	10308	2441	0	0	0	0	0	0	0
C90	9614	2390	0	0	0	0	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



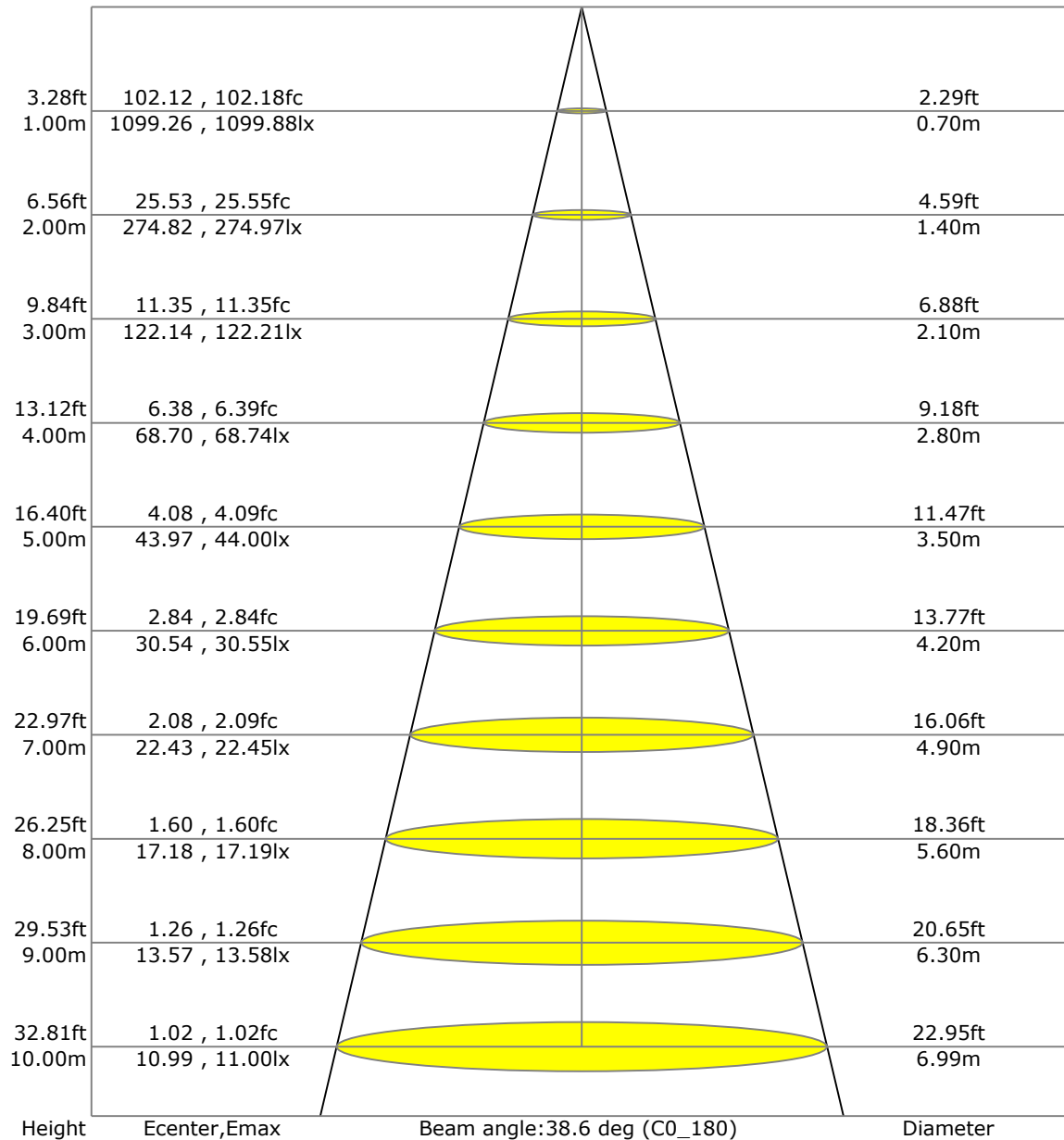
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Temperature: 25
Operators: QC01
Test Date: 2025/6/19 17:45:39

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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LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 25
 Operators: QC01
 Test Date: 2025/6/19 17:45:39

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	13.05	13.10	13.25	13.29	13.53	13.16	13.21	13.36	13.40	13.64
3H	13.02	13.08	13.23	13.27	13.51	13.14	13.19	13.34	13.38	13.63
4H	13.01	13.06	13.22	13.26	13.51	13.12	13.17	13.33	13.37	13.62
6H	13.00	13.05	13.21	13.25	13.50	13.11	13.16	13.32	13.36	13.61
8H	12.99	13.04	13.21	13.24	13.50	13.10	13.15	13.32	13.35	13.61
12H	12.98	13.03	13.20	13.24	13.49	13.09	13.14	13.31	13.35	13.60
4H 2H	13.01	13.06	13.22	13.26	13.51	13.12	13.18	13.33	13.37	13.62
3H	12.98	13.03	13.20	13.24	13.49	13.09	13.14	13.31	13.35	13.60
4H	12.96	13.01	13.19	13.22	13.48	13.07	13.13	13.30	13.34	13.60
6H	12.94	12.99	13.18	13.21	13.47	13.05	13.10	13.29	13.32	13.59
8H	12.93	12.98	13.17	13.20	13.47	13.04	13.09	13.28	13.32	13.58
12H	12.91	12.96	13.16	13.20	13.47	13.03	13.08	13.28	13.31	13.58
8H 4H	12.99	13.04	13.21	13.24	13.50	13.10	13.15	13.32	13.36	13.61
6H	12.90	12.95	13.16	13.19	13.46	13.01	13.06	13.27	13.30	13.57
8H	12.89	12.93	13.15	13.18	13.46	13.00	13.05	13.26	13.29	13.57
12H	12.87	12.91	13.14	13.17	13.45	12.98	13.03	13.25	13.28	13.56
12H 4H	12.91	12.96	13.16	13.20	13.47	13.03	13.08	13.28	13.31	13.58
6H	12.89	12.93	13.15	13.18	13.46	13.00	13.05	13.26	13.29	13.57

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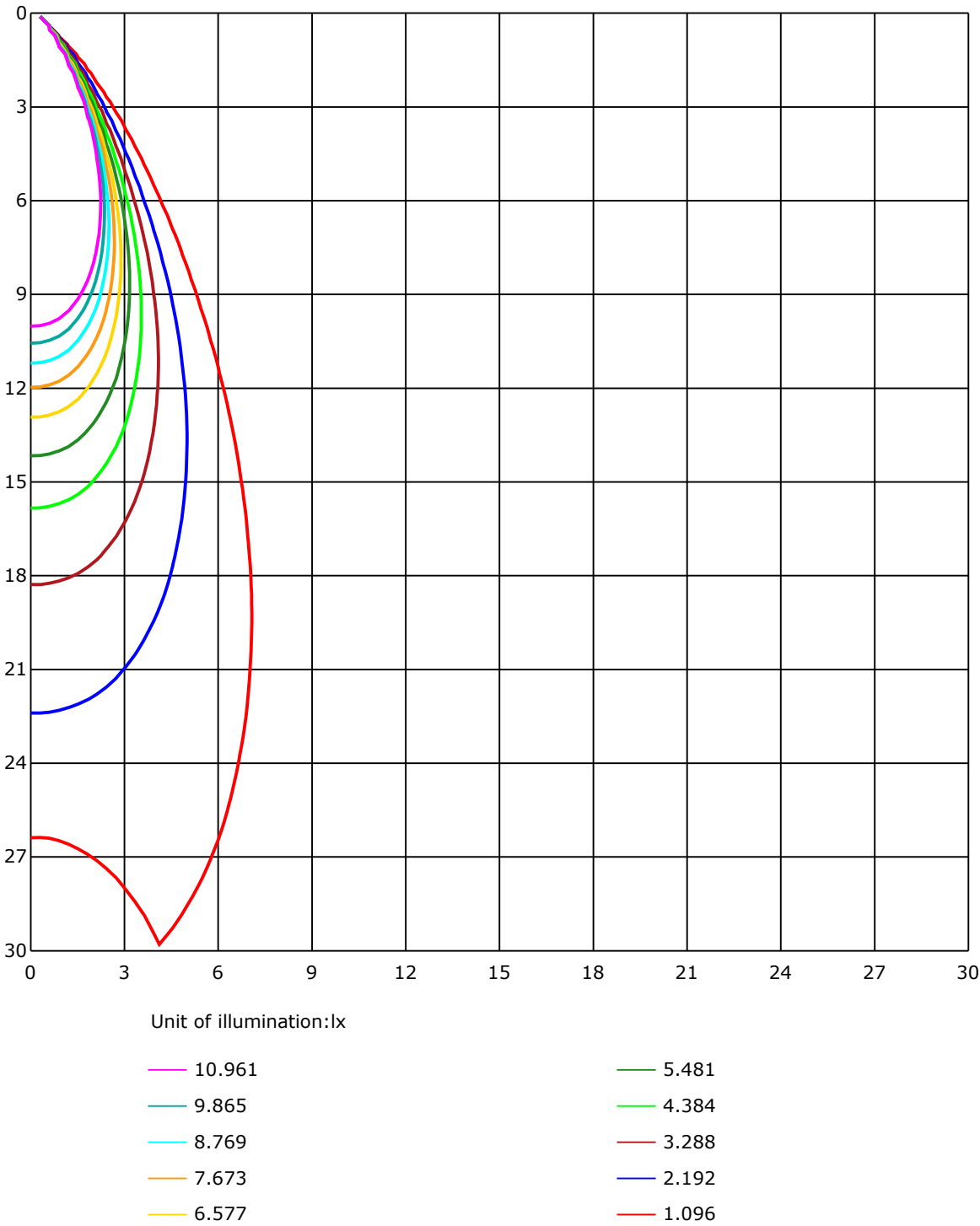
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

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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SPACE ISOLX DIAGRAM



C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
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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

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	1099.26	1093.46	1095.53	1092.37	1099.26	1093.46	1095.53	1092.37	1099.26	
G1	1099.88	1091.76	1094.54	1088.17	1098.23	1094.59	1095.25	1096.57	1099.88	
G2	1095.63	1086.9	1092.75	1076.04	1093.84	1094.12	1094.64	1098.6	1095.63	
G3	1088.22	1080.57	1086.19	1063.63	1089.26	1090.39	1090.82	1098.32	1088.22	
G4	1078.54	1069.44	1078.17	1048.76	1077.51	1083.45	1080.24	1096.29	1078.54	
G5	1065.75	1056.31	1068.63	1029.46	1066.56	1074.06	1067.88	1089.73	1065.75	
G6	1047.06	1036.49	1053.1	1008.32	1050.27	1059.05	1051.41	1080.29	1047.06	
G7	1026.16	1013.08	1030.54	981.22	1032.2	1040.17	1025.07	1066.23	1026.16	
G8	996.85	982.64	1007.98	953.99	1005.25	1018.08	1000.06	1047.77	996.85	
G9	968.24	951.06	979.29	921.9	977.64	991.37	967.63	1024.46	968.24	
G10	933.41	915.67	948.66	885.27	947.05	959.8	935.49	998.73	933.41	
G11	898.06	879.56	913.26	848.46	911.84	926.81	897.78	968.01	898.06	
G12	858.7	839.54	876.49	806.88	875.5	888.67	858.13	933.7	858.7	
G13	817.92	799.19	838.36	765.34	838.08	852.09	816.08	896.13	817.92	
G14	772.85	756.9	799.28	720.74	798.05	808.67	775.11	856.81	772.85	
G15	726.69	713.9	757.04	676.0	757.75	766.67	729.76	814.71	726.69	
G16	680.82	669.11	714.56	632.67	715.03	723.1	686.15	770.82	680.82	
G17	635.7	624.23	669.58	587.51	672.08	679.35	640.27	725.18	635.7	
G18	588.45	578.82	626.44	542.72	627.95	634.14	594.87	681.71	588.45	
G19	542.81	534.17	581.75	500.38	583.35	589.91	549.32	634.09	542.81	
G20	498.78	489.29	537.24	458.0	536.44	544.7	505.24	587.79	498.78	
G21	455.4	445.82	493.68	417.46	492.03	501.61	461.82	543.05	455.4	
G22	411.75	404.48	451.16	379.75	448.84	457.86	419.34	498.49	411.75	
G23	371.11	366.53	410.09	342.6	408.54	416.65	378.09	452.85	371.11	
G24	331.79	328.87	371.3	306.87	369.03	376.82	339.16	410.61	331.79	
G25	296.11	293.94	334.44	273.55	332.17	339.16	302.48	370.21	296.11	
G26	261.8	260.62	300.27	241.08	297.72	302.25	267.89	332.03	261.8	
G27	229.38	229.42	267.18	211.87	264.77	268.22	235.51	295.92	229.38	
G28	199.93	200.73	237.49	186.29	234.62	236.98	206.16	261.8	199.93	
G29	173.73	174.91	209.65	161.27	206.3	207.52	179.91	230.56	173.73	
G30	149.1	150.94	184.26	139.18	180.34	181.33	155.7	201.81	149.1	
G31	127.76	130.03	160.09	119.55	156.65	157.45	133.71	175.67	127.76	
G32	109.45	111.05	139.28	102.61	135.27	136.12	115.35	152.35	109.45	
G33	94.11	94.82	120.3	87.74	116.95	117.57	98.78	131.68	94.11	
G34	79.81	80.9	103.88	75.09	100.53	101.05	84.67	113.74	79.81	
G35	67.3	68.53	89.86	63.53	87.03	87.08	71.55	97.6	67.3	
G36	57.16	58.1	77.36	53.85	74.76	74.67	60.79	83.92	57.16	

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	48.05	49.18	66.22	45.4	64.05	64.23	51.68	72.02	48.05	
G38	40.49	41.25	57.25	38.32	55.22	55.41	43.37	62.44	40.49	
G39	34.03	34.88	48.8	32.14	47.39	47.39	36.72	53.66	34.03	
G40	28.46	29.07	41.96	26.95	40.64	40.59	30.49	45.55	28.46	
G41	23.69	24.26	36.06	22.37	35.02	34.83	25.16	38.8	23.69	
G42	19.35	19.68	30.82	18.6	29.97	29.64	20.77	33.18	19.35	
G43	15.72	16.24	26.24	15.1	25.58	25.2	16.94	28.03	15.72	
G44	12.7	13.07	22.04	12.18	21.71	21.52	13.92	23.79	12.7	
G45	10.19	10.52	18.78	9.82	18.45	18.36	11.14	20.15	10.19	
G46	8.02	8.31	15.95	7.93	15.67	15.43	8.97	17.09	8.02	
G47	6.14	6.61	13.55	5.99	13.36	13.07	6.99	14.44	6.14	
G48	4.63	4.96	11.37	4.58	11.19	11.09	5.24	12.32	4.63	
G49	3.35	3.49	9.58	3.35	9.44	9.44	3.92	10.29	3.35	
G50	2.12	2.27	8.02	2.22	7.98	7.83	2.69	8.87	2.12	
G51	1.37	1.37	6.61	1.09	6.65	6.61	1.56	7.22	1.37	
G52	0.33	0.47	5.47	0.28	5.52	5.29	0.57	6.04	0.33	
G53	0.0	0.0	4.29	0.0	4.53	4.29	0.0	4.91	0.0	
G54	0.0	0.0	3.45	0.0	3.73	3.54	0.0	4.01	0.0	
G55	0.0	0.0	2.88	0.0	3.16	3.02	0.0	3.26	0.0	
G56	0.0	0.0	2.45	0.0	2.74	2.64	0.0	2.78	0.0	
G57	0.0	0.0	2.17	0.0	2.45	2.41	0.0	2.45	0.0	
G58	0.0	0.0	2.03	0.0	2.08	2.08	0.0	2.27	0.0	
G59	0.0	0.0	1.89	0.0	1.89	1.84	0.0	1.94	0.0	
G60	0.0	0.0	1.65	0.0	1.65	1.7	0.0	1.75	0.0	
G61	0.0	0.0	1.37	0.0	1.51	1.46	0.0	1.6	0.0	
G62	0.0	0.0	1.18	0.0	1.18	1.13	0.0	1.46	0.0	
G63	0.0	0.0	1.09	0.0	0.99	0.99	0.0	1.27	0.0	
G64	0.0	0.0	0.76	0.0	0.85	0.8	0.0	1.09	0.0	
G65	0.0	0.0	0.66	0.0	0.61	0.61	0.0	0.76	0.0	
G66	0.0	0.0	0.52	0.0	0.38	0.47	0.0	0.66	0.0	
G67	0.0	0.0	0.28	0.0	0.19	0.05	0.0	0.47	0.0	
G68	0.0	0.0	0.14	0.0	0.0	0.05	0.0	0.33	0.0	
G69	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.0	
G70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	
G71	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G72	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G73	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

C Range: 0 - 360 Deg
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Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 2)

[illegible]

Remarks: