

Report No.:

Test Time: 2025/1/7 17:41:42

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP110CT075H139-38°-25W
Lamp Type:
Luminous Width: 80 mm
Luminous Length: 80 mm
Luminous Height: 91 mm

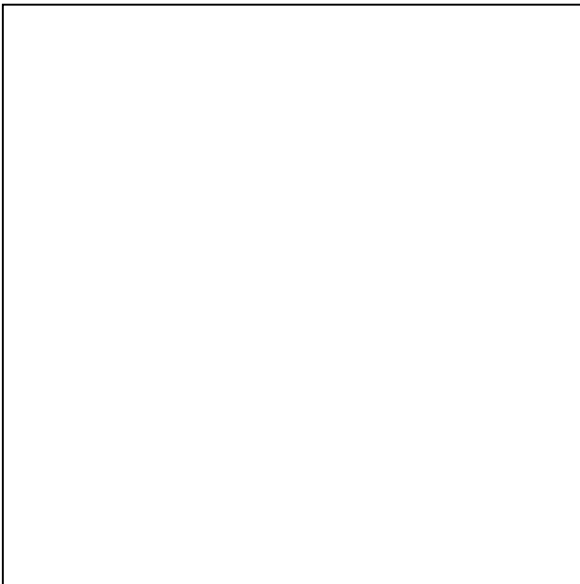
Voltage(V): 219.80 V
Current(A): 0.1170 A
Power(W): 24.90 W
Power Factor: 0.9660
Lamp Luminous Flux: 1662.90

Photometric Results

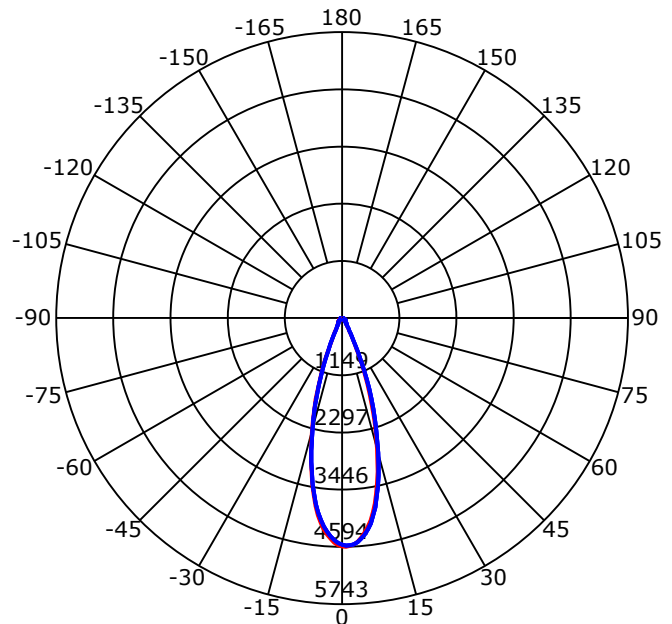
CIE Class: Direct
Luminaire Luminous Flux: 1662.896 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 66.77 lm/W
Beam Angle(50%) C0-180,C90-270: 32.0,32.4
Field Angle(10%) C0-180,C90-270: 52.3,52.7
S/MH C0-180,C90-270: 0.536,0.536

Max. Intensity: 4594.22 cd
Max.Intensity Angle: C=0 Gamma=1
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 4590.22 cd
Effective Luminous Flux: 1318.63 lm
ERP(ϕ use)(120deg): 1618.85 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 32.0 deg,32.4 deg

C0-180 — C90-270 —

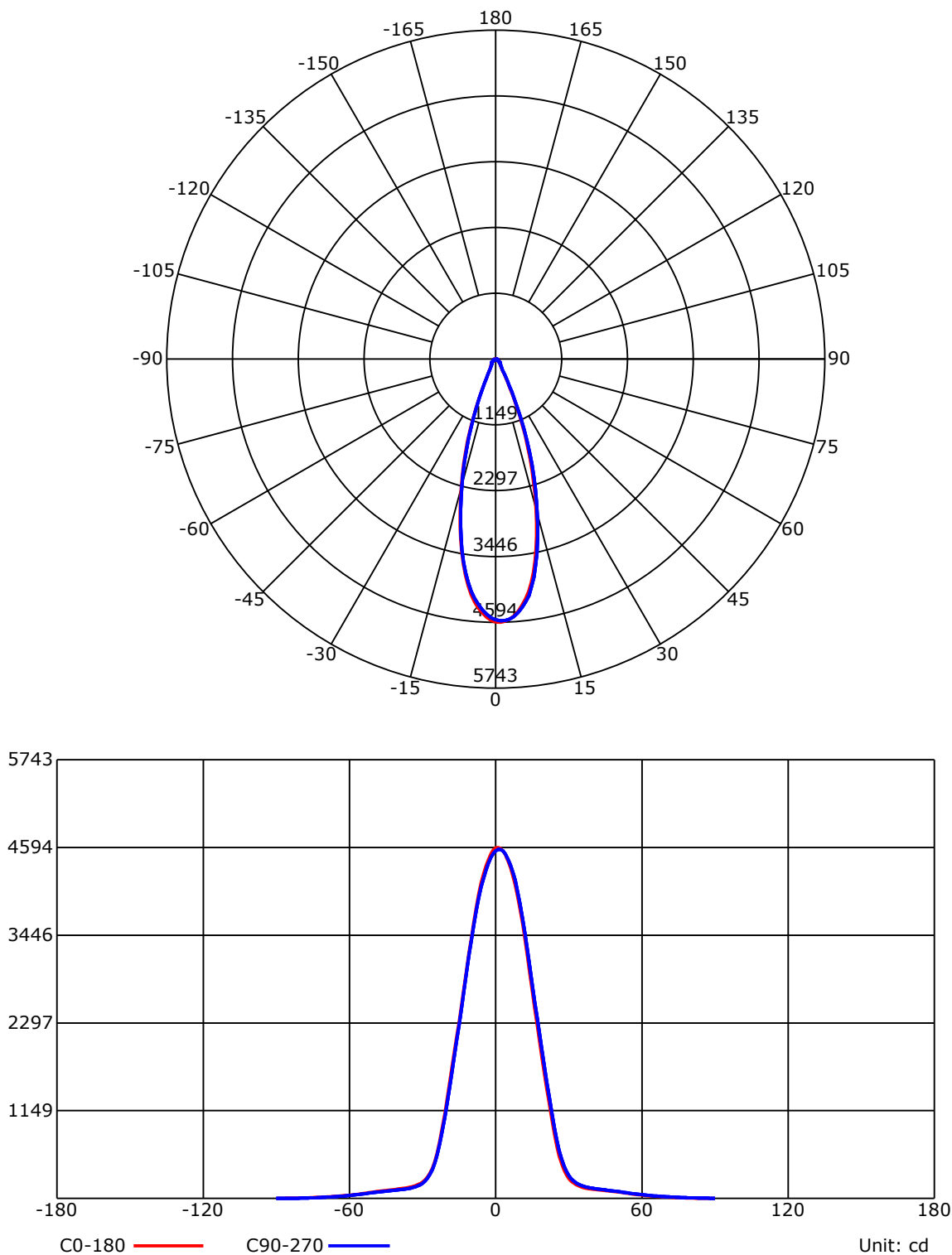
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/1/7 17:41:42

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



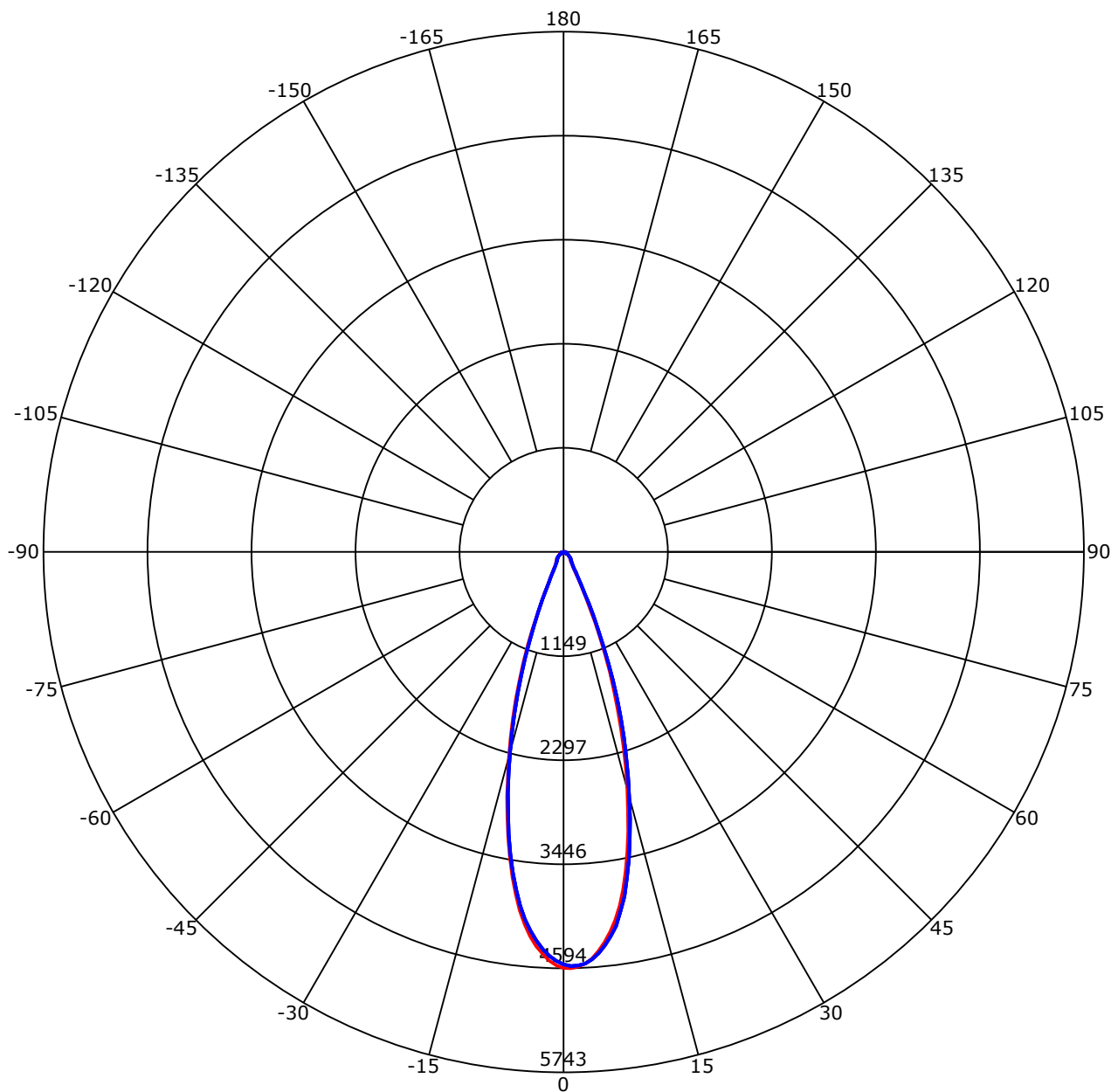
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Temperature: 25
Operators: QC01
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G Range: 0 - 90 Deg
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Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.78 m
Remarks:

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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 17:41:42

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

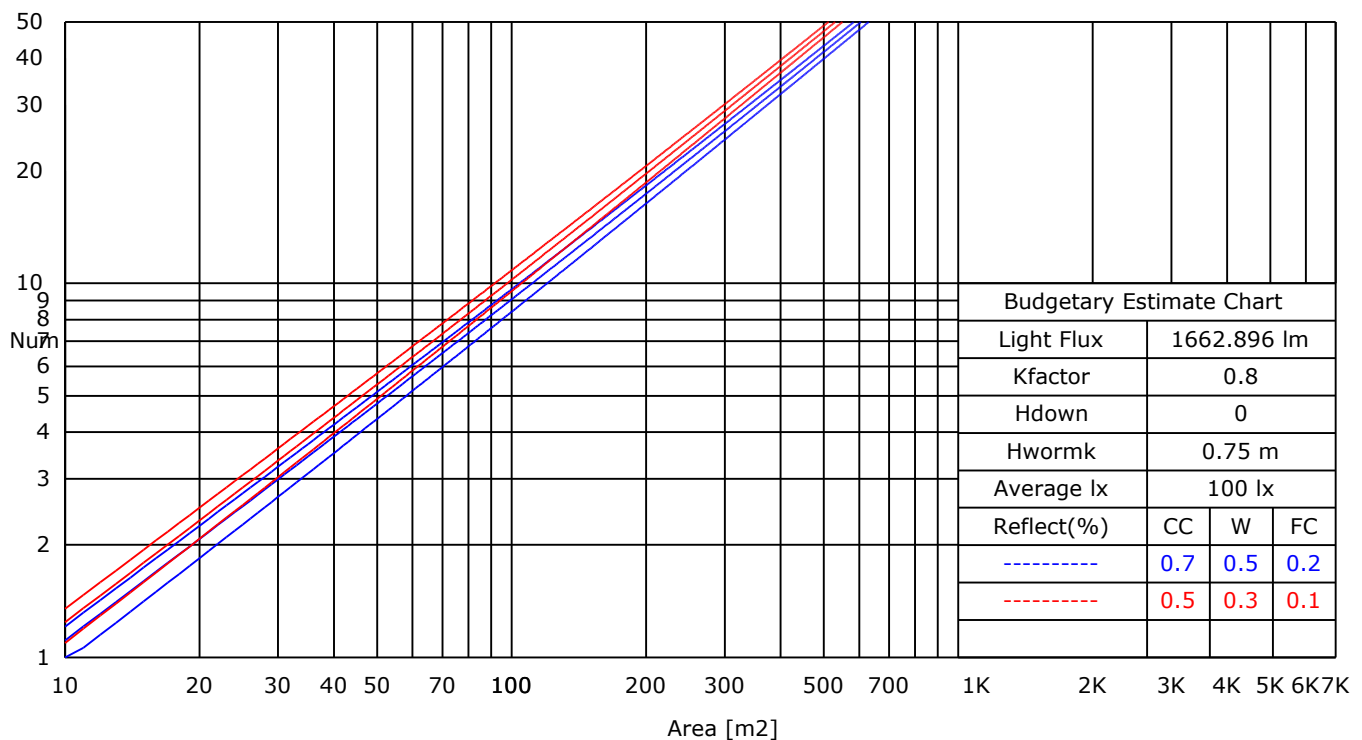
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UTILIZATION FACTORS TABLE

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	0.95	0.92	0.90	0.94	0.91	0.88	0.91	0.88	0.85	0.87	0.83	0.80	0.81	0.78	0.75	0.69
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	0.84	0.82	0.80	0.83	0.80	0.78	0.81	0.78	0.75	0.78	0.74	0.71	0.75	0.71	0.67	0.63
5	0.81	0.79	0.78	0.80	0.78	0.76	0.79	0.75	0.73	0.76	0.72	0.69	0.73	0.69	0.65	0.61
6	0.79	0.77	0.76	0.78	0.76	0.74	0.76	0.73	0.71	0.74	0.70	0.67	0.71	0.67	0.63	0.59
7	0.77	0.75	0.74	0.76	0.74	0.72	0.74	0.71	0.69	0.72	0.68	0.65	0.70	0.65	0.62	0.58
8	0.75	0.73	0.72	0.74	0.72	0.71	0.72	0.69	0.67	0.70	0.67	0.64	0.68	0.64	0.60	0.57
9	0.73	0.72	0.71	0.72	0.70	0.69	0.71	0.68	0.66	0.69	0.65	0.62	0.67	0.62	0.59	0.56
10	0.72	0.70	0.70	0.71	0.69	0.68	0.69	0.67	0.65	0.67	0.64	0.61	0.65	0.61	0.58	0.55

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



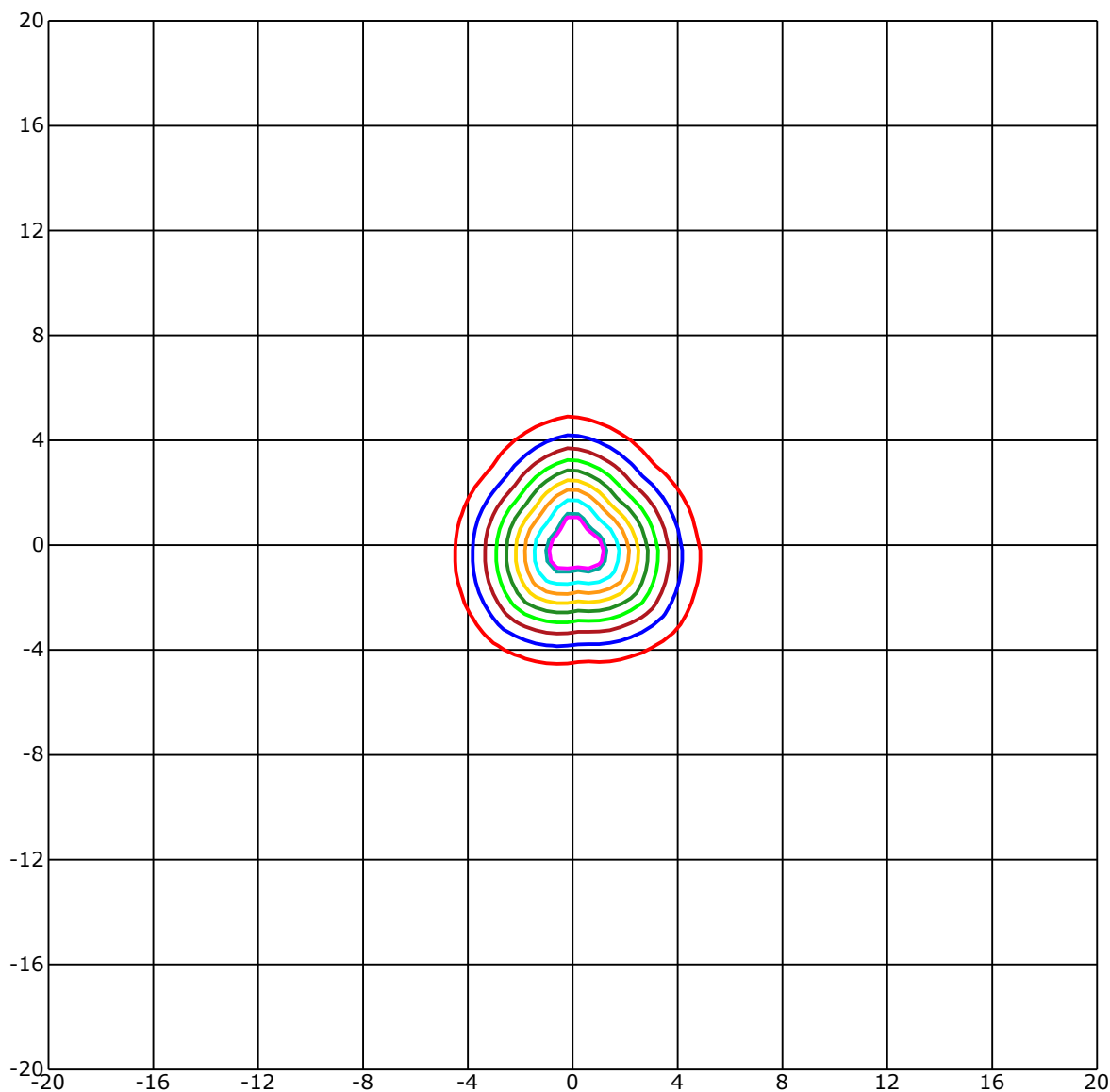
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Operators: QC01
Test Date: 2025/1/7 17:41:42

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 17:41:42

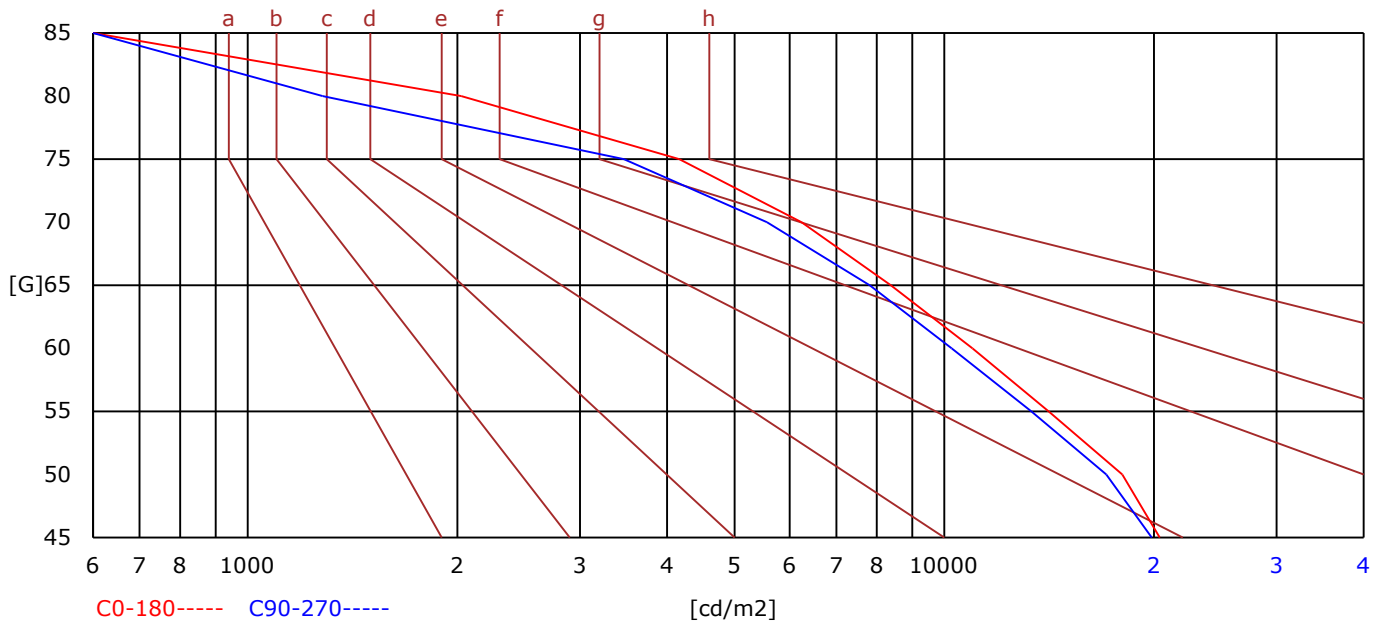
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Test Distance: 6.78 m
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	20376	18001	14125	10975	8379	6237	4163	2027	0
C90	19858	17085	13336	10242	7818	5565	3469	1282	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



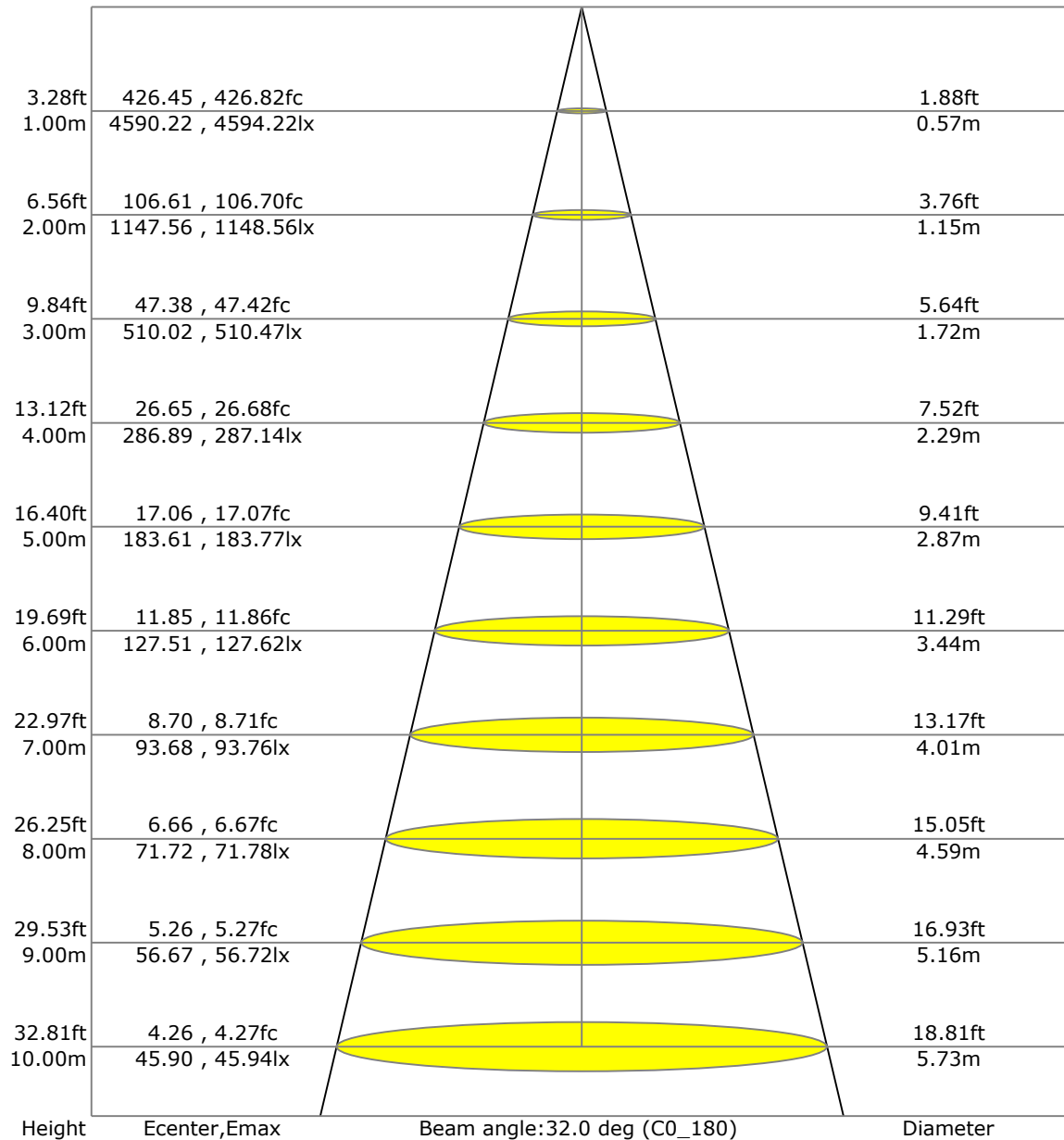
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LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 25
 Operators: QC01
 Test Date: 2025/1/7 17:41:42

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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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	11.22	11.27	11.42	11.46	11.70	11.41	11.46	11.61	11.65	11.90
3H	11.26	11.32	11.47	11.51	11.76	11.44	11.50	11.65	11.69	11.94
4H	11.26	11.32	11.47	11.51	11.76	11.43	11.49	11.65	11.69	11.94
6H	11.25	11.31	11.46	11.51	11.76	11.42	11.48	11.64	11.68	11.93
8H	11.24	11.30	11.46	11.50	11.75	11.41	11.47	11.63	11.67	11.93
12H	11.23	11.29	11.45	11.49	11.75	11.40	11.46	11.62	11.67	11.92
4H 2H	12.05	12.11	12.26	12.30	12.55	12.44	12.49	12.65	12.69	12.94
3H	12.13	12.19	12.36	12.40	12.65	12.51	12.56	12.73	12.77	13.03
4H	12.14	12.19	12.37	12.41	12.67	12.50	12.56	12.73	12.77	13.03
6H	12.12	12.18	12.36	12.40	12.66	12.48	12.54	12.72	12.76	13.03
8H	12.11	12.17	12.35	12.39	12.66	12.47	12.53	12.71	12.75	13.02
12H	12.10	12.15	12.35	12.38	12.65	12.46	12.51	12.71	12.74	13.01
8H 4H	12.11	12.17	12.33	12.37	12.62	12.61	12.67	12.83	12.87	13.13
6H	12.19	12.24	12.44	12.48	12.75	12.70	12.75	12.96	12.99	13.27
8H	12.18	12.23	12.44	12.47	12.75	12.68	12.74	12.95	12.98	13.26
12H	12.16	12.21	12.43	12.46	12.75	12.67	12.72	12.94	12.97	13.25
12H 4H	12.20	12.25	12.45	12.48	12.75	12.77	12.83	13.02	13.06	13.33
6H	12.18	12.23	12.44	12.47	12.75	12.76	12.81	13.02	13.06	13.33

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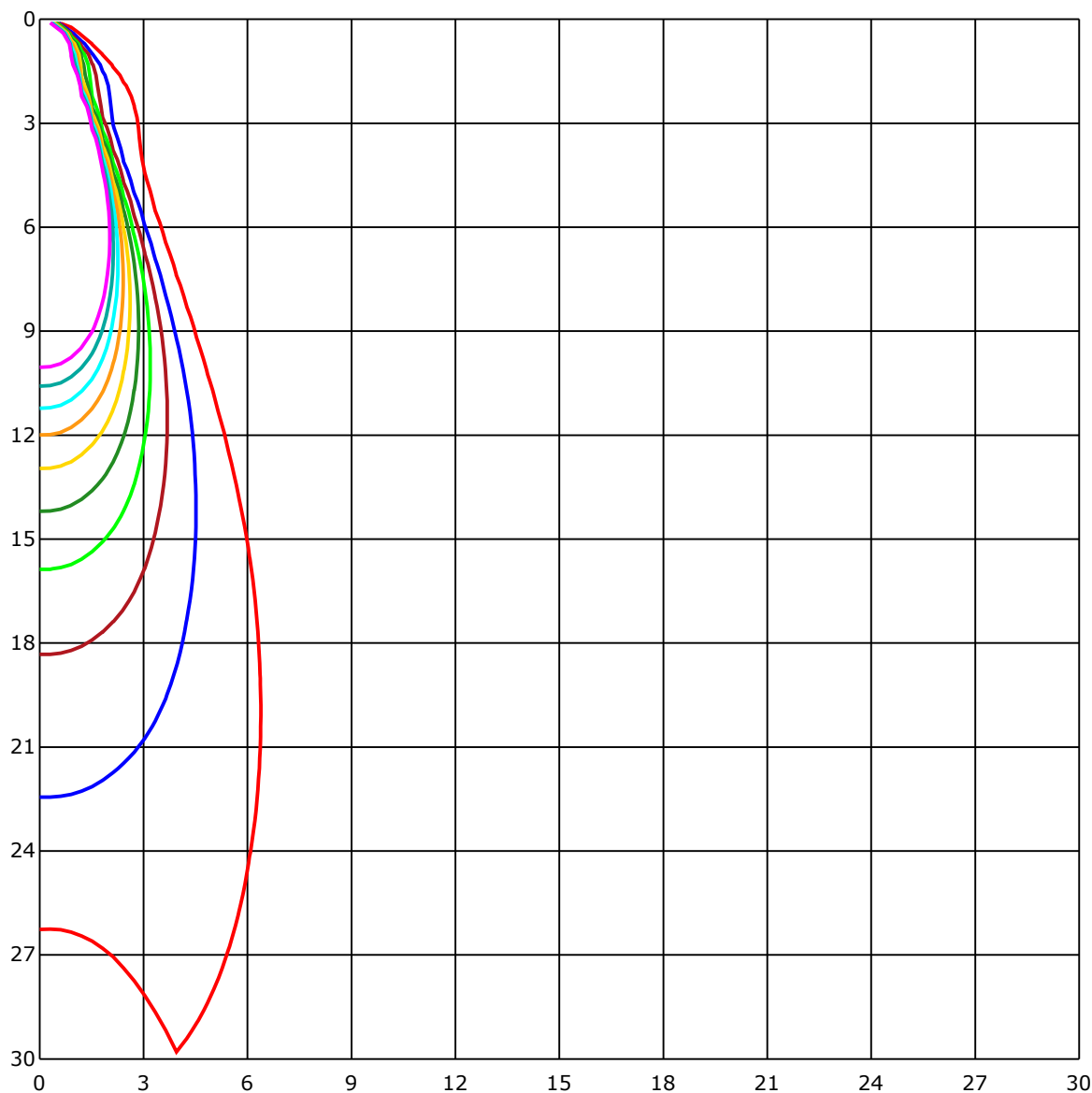
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.78 m
Remarks:

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G Interval: 1.0 Deg
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Humidity: 60
Test Distance: 6.78 m
Remarks:

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SPACE ISOLX DIAGRAM



Unit of illumination:lx

45.573	22.786
41.015	18.229
36.458	13.672
31.901	9.115
27.344	4.557

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Test System: Huipu CPM-1600B Goniophotometer
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Test Distance: 6.78 m
Remarks:

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	4590.22	4533.77	4549.59	4539.33	4590.22	4533.77	4549.59	4539.33	4590.22	
G1	4594.22	4506.88	4569.67	4486.98	4564.11	4544.71	4515.52	4570.32	4594.22	
G2	4579.46	4456.04	4566.59	4416.92	4512.4	4536.3	4461.23	4578.36	4579.46	
G3	4547.93	4385.11	4548.62	4329.72	4439.81	4510.33	4390.81	4565.58	4547.93	
G4	4496.22	4298.37	4507.29	4225.51	4359.69	4461.37	4298.51	4535.56	4496.22	
G5	4421.01	4195.12	4445.56	4105.44	4256.49	4398.35	4196.69	4487.02	4421.01	
G6	4329.03	4071.65	4365.11	3964.18	4131.78	4316.02	4075.38	4424.46	4329.03	
G7	4221.0	3933.38	4270.51	3795.57	3986.15	4218.47	3930.67	4341.39	4221.0	
G8	4098.59	3759.99	4167.82	3611.6	3811.93	4105.48	3767.66	4239.9	4098.59	
G9	3948.36	3561.36	4012.17	3414.53	3628.61	3954.25	3585.81	4130.45	3948.36	
G10	3781.27	3345.21	3859.19	3199.13	3421.24	3783.43	3389.2	3983.67	3781.27	
G11	3590.18	3121.16	3658.07	2985.23	3211.45	3599.56	3173.75	3827.97	3590.18	
G12	3379.23	2891.23	3462.98	2750.47	2985.88	3394.77	2952.05	3646.44	3379.23	
G13	3164.42	2659.87	3249.83	2529.5	2773.14	3178.12	2729.83	3446.44	3164.42	
G14	2931.73	2430.35	3032.9	2308.63	2548.49	2960.6	2501.92	3241.42	2931.73	
G15	2714.71	2217.01	2802.37	2094.27	2328.62	2741.23	2282.29	3032.26	2714.71	
G16	2486.52	2008.27	2579.93	1880.11	2119.88	2532.45	2067.29	2816.94	2486.52	
G17	2261.97	1801.32	2361.81	1673.34	1916.84	2321.36	1855.61	2604.02	2261.97	
G18	2041.55	1600.9	2150.95	1462.35	1715.86	2115.37	1643.14	2389.58	2041.55	
G19	1825.91	1398.87	1936.6	1260.87	1506.84	1908.88	1439.32	2172.79	1825.91	
G20	1623.24	1202.3	1726.07	1067.66	1302.24	1701.34	1238.76	1959.27	1623.24	
G21	1423.83	1009.83	1519.72	893.72	1102.18	1486.62	1048.45	1746.75	1423.83	
G22	1223.68	828.3	1318.19	734.85	918.08	1278.93	870.18	1536.72	1223.68	
G23	1031.9	667.19	1121.08	599.11	749.61	1080.17	711.09	1335.57	1031.9	
G24	850.55	534.01	939.55	485.93	605.96	887.88	576.63	1134.96	850.55	
G25	691.64	427.14	775.17	396.66	490.67	717.15	464.97	950.86	691.64	
G26	557.78	347.15	634.36	328.54	400.06	576.72	378.14	786.52	557.78	
G27	451.59	287.81	516.32	277.37	331.85	465.02	312.63	647.83	451.59	
G28	370.46	244.05	425.44	238.21	281.0	377.26	263.12	531.53	370.46	
G29	307.11	211.36	354.83	207.92	243.31	312.36	226.62	440.52	307.11	
G30	258.76	187.6	299.53	185.48	216.74	265.24	199.64	366.09	258.76	
G31	223.59	170.4	258.48	169.49	196.01	230.76	178.73	310.47	223.59	
G32	197.94	156.61	227.04	156.29	180.24	205.75	163.23	266.89	197.94	
G33	178.4	145.44	203.41	145.81	167.88	187.18	151.24	234.62	178.4	
G34	163.28	137.03	185.44	137.26	158.13	173.07	142.59	209.62	163.28	
G35	151.56	130.14	170.54	130.41	150.32	162.36	134.55	190.17	151.56	
G36	141.4	124.94	159.23	124.57	143.42	153.58	128.34	174.63	141.4	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

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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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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	133.49	120.35	149.77	120.02	138.04	146.5	123.33	162.31	133.49	
G38	127.29	116.58	142.69	115.93	133.03	140.66	119.56	152.75	127.29	
G39	122.64	113.04	136.48	111.8	128.71	135.65	115.47	144.48	122.64	
G40	118.18	109.4	131.42	107.93	124.53	131.65	112.12	138.18	118.18	
G41	114.69	105.68	126.96	104.49	120.3	127.33	108.85	132.8	114.69	
G42	110.92	102.23	122.64	100.67	116.39	123.56	105.36	128.11	110.92	
G43	107.29	98.83	118.64	96.99	112.48	119.43	101.87	124.21	107.29	
G44	103.84	95.66	114.42	93.41	108.58	116.02	98.65	119.7	103.84	
G45	100.58	92.21	110.46	89.87	105.04	112.25	95.11	116.02	100.58	
G46	97.36	89.09	106.55	86.47	101.27	108.49	92.07	111.93	97.36	
G47	94.1	85.46	102.6	82.88	97.64	104.67	88.72	108.39	94.1	
G48	90.33	81.96	99.02	78.97	93.64	101.41	85.36	104.53	90.33	
G49	87.06	77.96	94.83	75.02	89.87	97.5	81.59	101.04	87.06	
G50	83.62	74.06	90.93	70.29	85.36	93.68	77.96	96.99	83.62	
G51	79.99	69.14	86.88	65.83	80.58	89.91	73.69	93.55	79.99	
G52	75.62	64.54	81.96	61.05	75.62	85.91	68.81	89.78	75.62	
G53	70.93	60.03	77.18	56.95	71.11	81.0	64.26	85.27	70.93	
G54	66.29	55.99	72.45	52.77	66.33	76.12	59.99	80.31	66.29	
G55	61.74	51.85	67.71	48.96	62.2	71.48	55.9	75.62	61.74	
G56	57.46	47.99	63.53	44.96	57.92	67.02	51.94	70.88	57.46	
G57	53.65	44.31	59.39	41.65	54.1	62.75	47.99	66.38	53.65	
G58	49.55	41.28	55.58	38.52	50.52	58.61	44.45	62.2	49.55	
G59	45.69	38.02	51.9	35.72	46.89	55.02	41.14	58.43	45.69	
G60	42.29	35.12	48.08	32.78	43.76	51.39	38.15	54.75	42.29	
G61	39.39	32.32	44.54	30.2	40.45	47.3	35.17	50.84	39.39	
G62	36.18	29.65	41.6	27.54	37.69	44.18	32.45	47.07	36.18	
G63	33.47	27.21	38.61	25.33	35.07	40.96	29.7	44.18	33.47	
G64	30.71	24.91	36.04	23.12	32.36	38.2	27.31	41.0	30.71	
G65	28.13	22.66	33.28	21.15	30.11	35.44	24.82	38.15	28.13	
G66	25.93	20.78	30.84	18.98	27.58	32.73	22.66	35.35	25.93	
G67	23.72	18.66	28.45	17.01	25.6	30.34	20.55	32.73	23.72	
G68	21.42	16.82	26.34	15.22	23.31	27.95	18.53	30.2	21.42	
G69	19.4	15.12	24.18	13.7	21.38	25.74	16.59	28.04	19.4	
G70	17.61	13.65	22.25	12.18	19.58	23.72	14.89	25.74	17.61	
G71	15.86	12.09	20.5	10.66	18.02	21.7	13.38	23.67	15.86	
G72	14.11	10.71	18.71	9.24	16.23	19.9	11.91	21.65	14.11	
G73	12.6	9.24	17.38	7.95	14.8	18.16	10.34	19.63	12.6	

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Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.78 m
Remarks: