

Report No.:

Test Time: 2024/8/6 17:53:47

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBDL226CT115-14.1W
Lamp Type:
Luminous Width: 106 mm
Luminous Length: 106 mm
Luminous Height: 55 mm

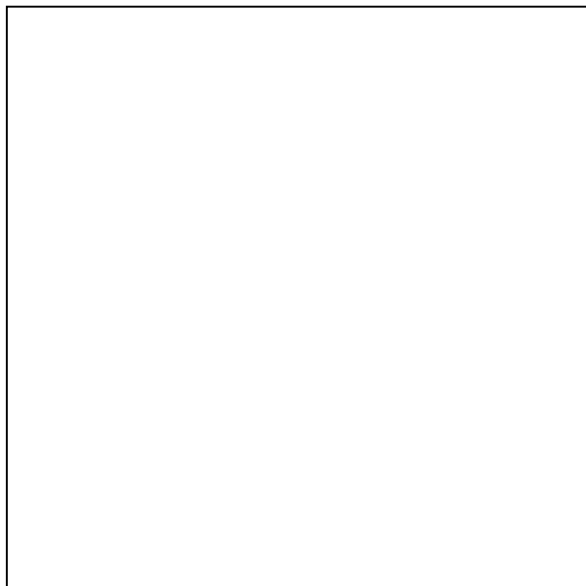
Voltage(V): 219.90 V
Current(A): 0.0670 A
Power(W): 14.06 W
Power Factor: 0.9440
Lamp Luminous Flux: 889.48

Photometric Results

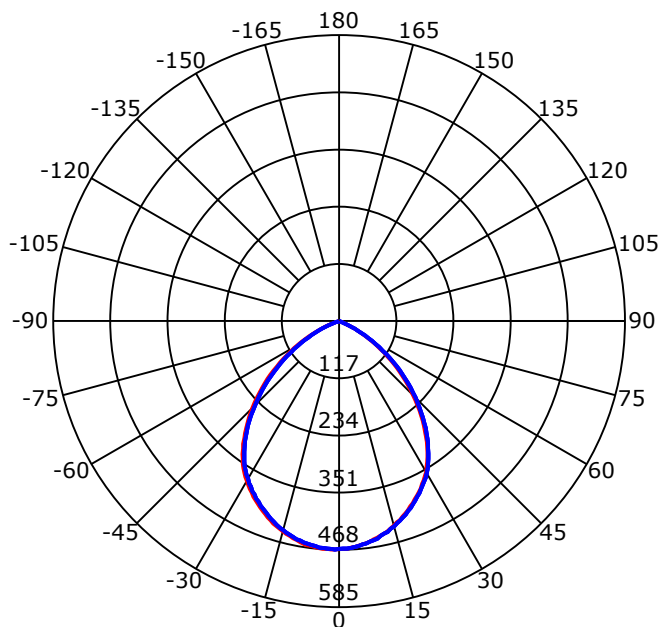
CIE Class: Direct
Luminaire Luminous Flux: 889.4807 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 63.26 lm/W
Beam Angle(50%) C0-180,C90-270: 89.7,89.7
Field Angle(10%) C0-180,C90-270: 127.8,127.6
S/MH C0-180,C90-270: 1.155,1.155

Max. Intensity: 468.20 cd
Max.Intensity Angle: C=225 Gamma=4
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 466.99 cd
Effective Luminous Flux: 872.43 lm
ERP(ϕ use)(120deg): 847.22 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 89.7 deg,89.7 deg

C0-180 — C90-270 —

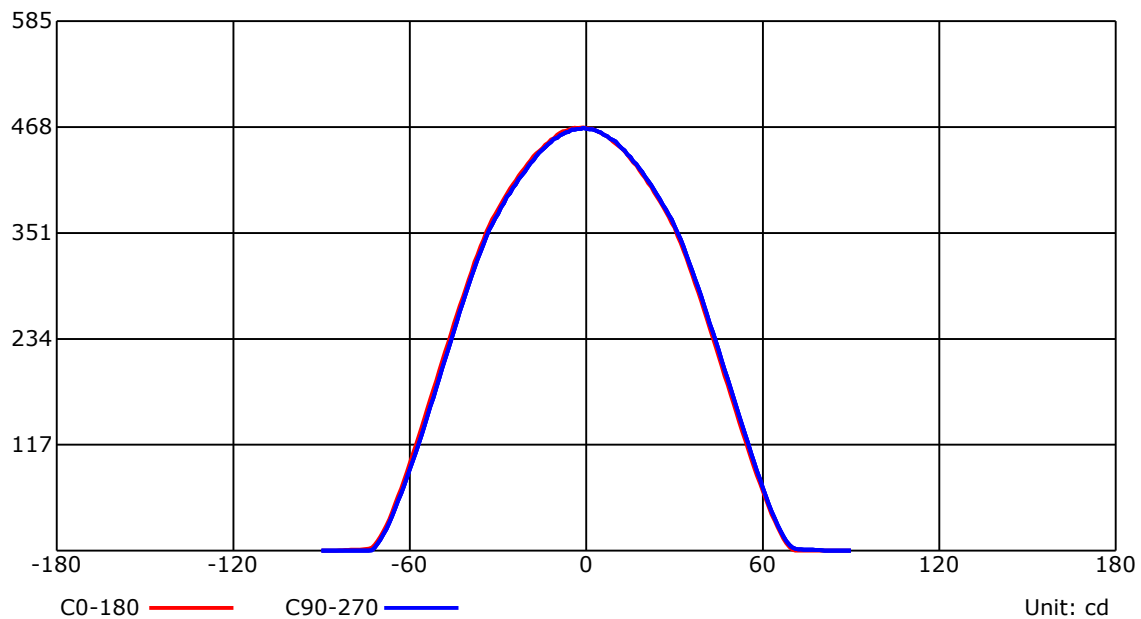
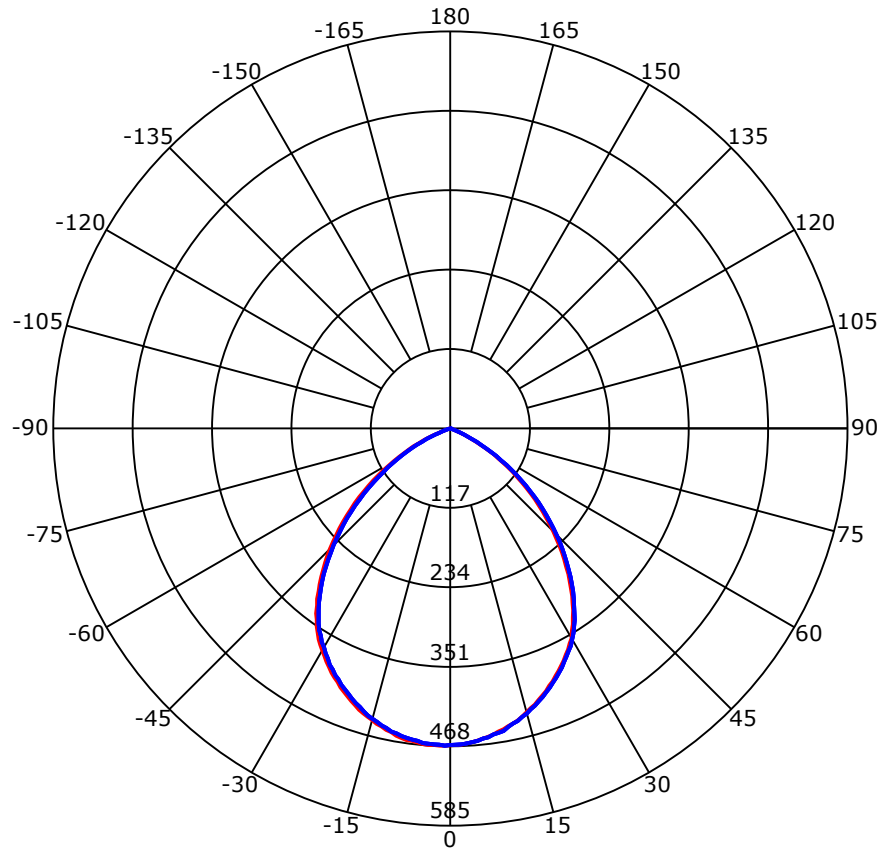
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/8/6 17:53:47

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks:

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Luminous Intensity Distribution Curve



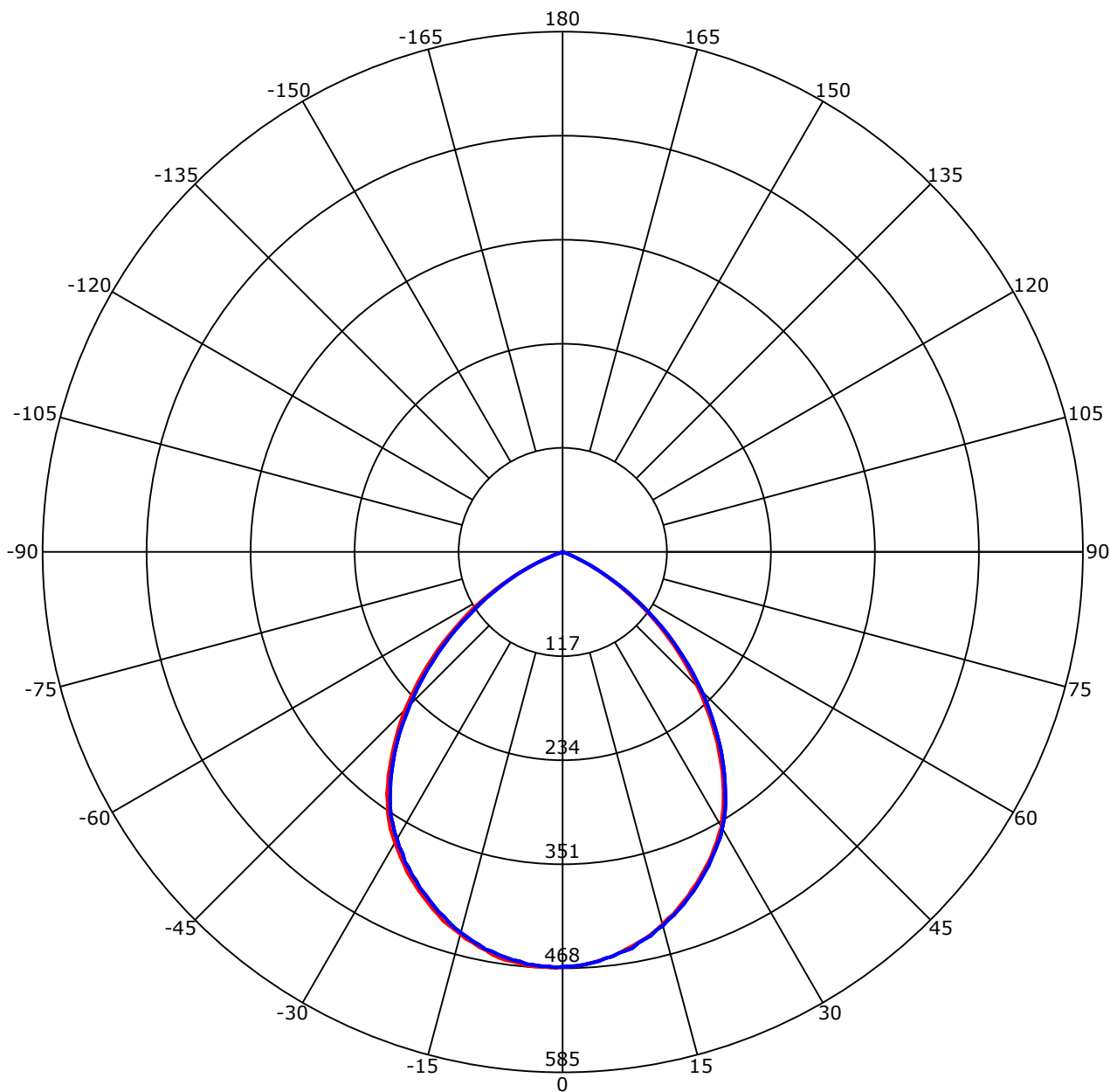
C Range: 0 - 360 Deg
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Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/8/6 17:53:47

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 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: 2024/8/6 17:53:47

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks:

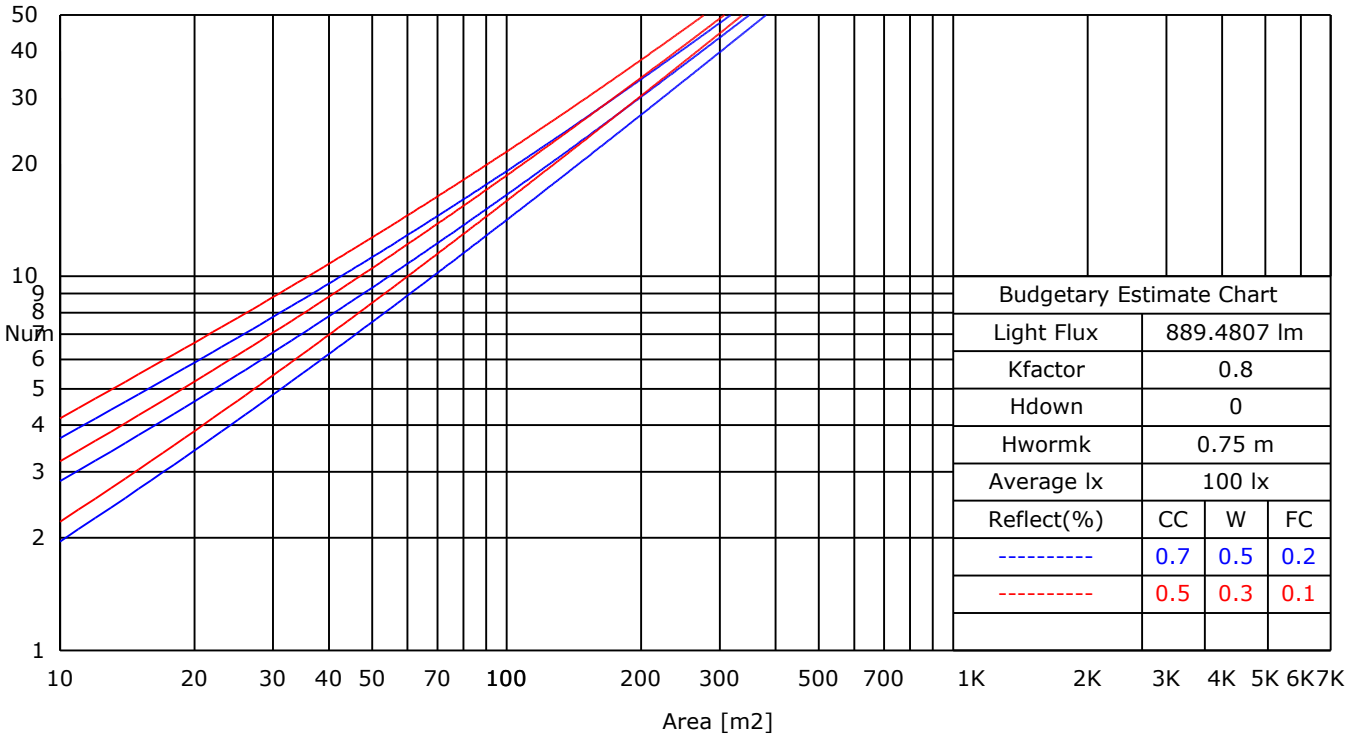
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UTILIZATION FACTORS TABLE

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	1.09	1.07	1.06	1.07	1.06	1.04	1.03	1.02	1.00	0.98	0.96	0.95	0.92	0.90	0.88	0.83
2	1.01	0.99	0.98	0.99	0.97	0.96	0.96	0.94	0.92	0.92	0.89	0.87	0.86	0.83	0.81	0.76
3	0.93	0.91	0.90	0.92	0.89	0.88	0.89	0.86	0.84	0.86	0.82	0.80	0.81	0.78	0.75	0.70
4	0.86	0.84	0.83	0.85	0.83	0.81	0.83	0.80	0.77	0.80	0.76	0.73	0.76	0.72	0.69	0.65
5	0.79	0.78	0.76	0.79	0.76	0.75	0.77	0.74	0.71	0.75	0.71	0.68	0.72	0.67	0.64	0.60
6	0.74	0.72	0.71	0.74	0.71	0.69	0.72	0.69	0.66	0.70	0.66	0.63	0.68	0.63	0.59	0.55
7	0.69	0.67	0.66	0.69	0.66	0.64	0.68	0.64	0.61	0.66	0.62	0.58	0.64	0.59	0.55	0.52
8	0.65	0.63	0.62	0.64	0.62	0.60	0.64	0.60	0.57	0.62	0.58	0.55	0.61	0.56	0.52	0.48
9	0.61	0.59	0.58	0.60	0.58	0.57	0.60	0.56	0.54	0.59	0.54	0.51	0.58	0.52	0.48	0.45
10	0.57	0.55	0.54	0.57	0.55	0.53	0.57	0.53	0.51	0.56	0.51	0.48	0.55	0.49	0.46	0.43

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



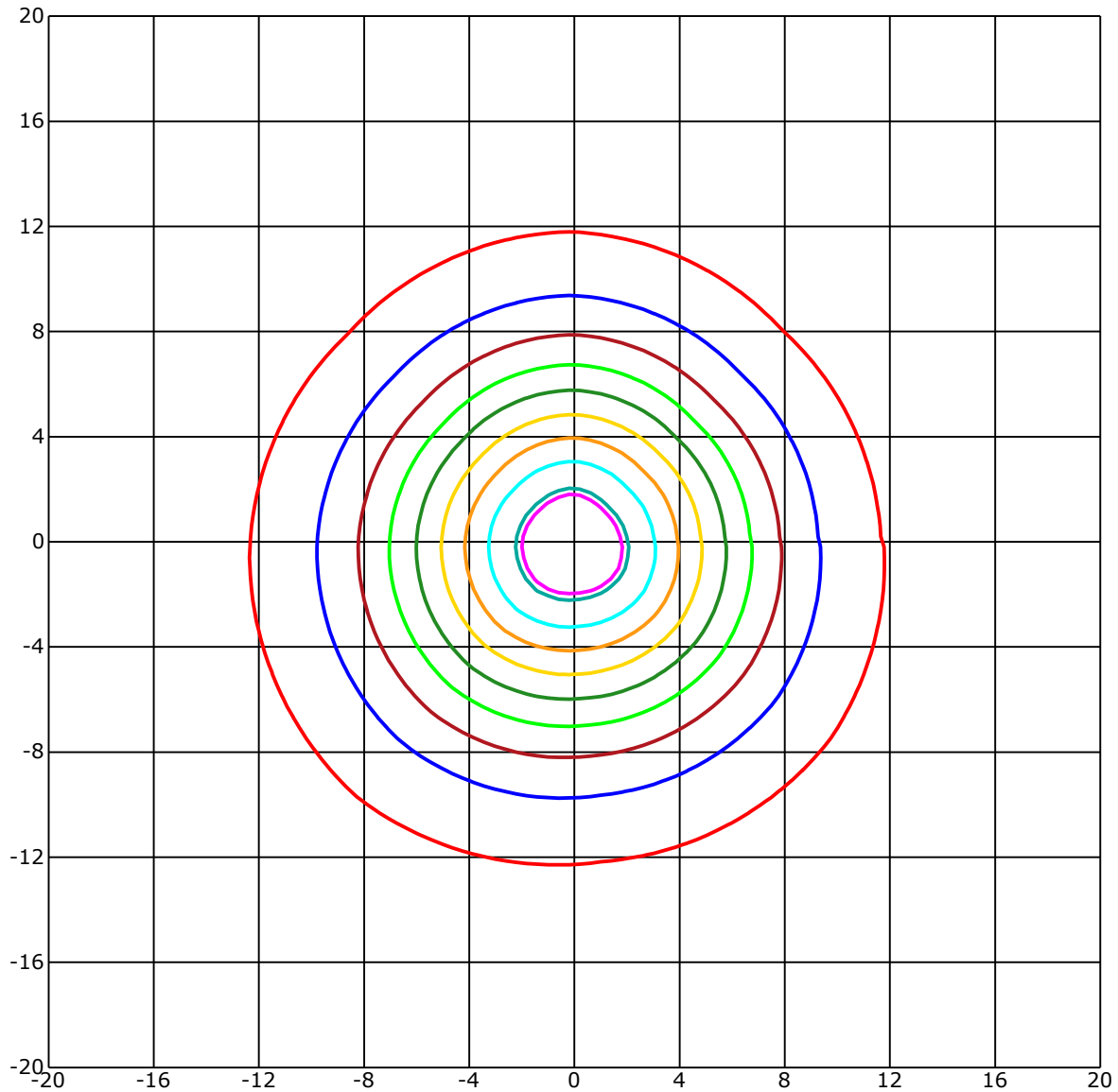
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Temperature: 25
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
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ISOLX DIAGRAM



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

4.301(92%Emax)	2.337(50%Emax)
4.207(90%Emax)	1.87(40%Emax)
3.74(80%Emax)	1.402(30%Emax)
3.272(70%Emax)	0.935(20%Emax)
2.805(60%Emax)	0.467(10%Emax)

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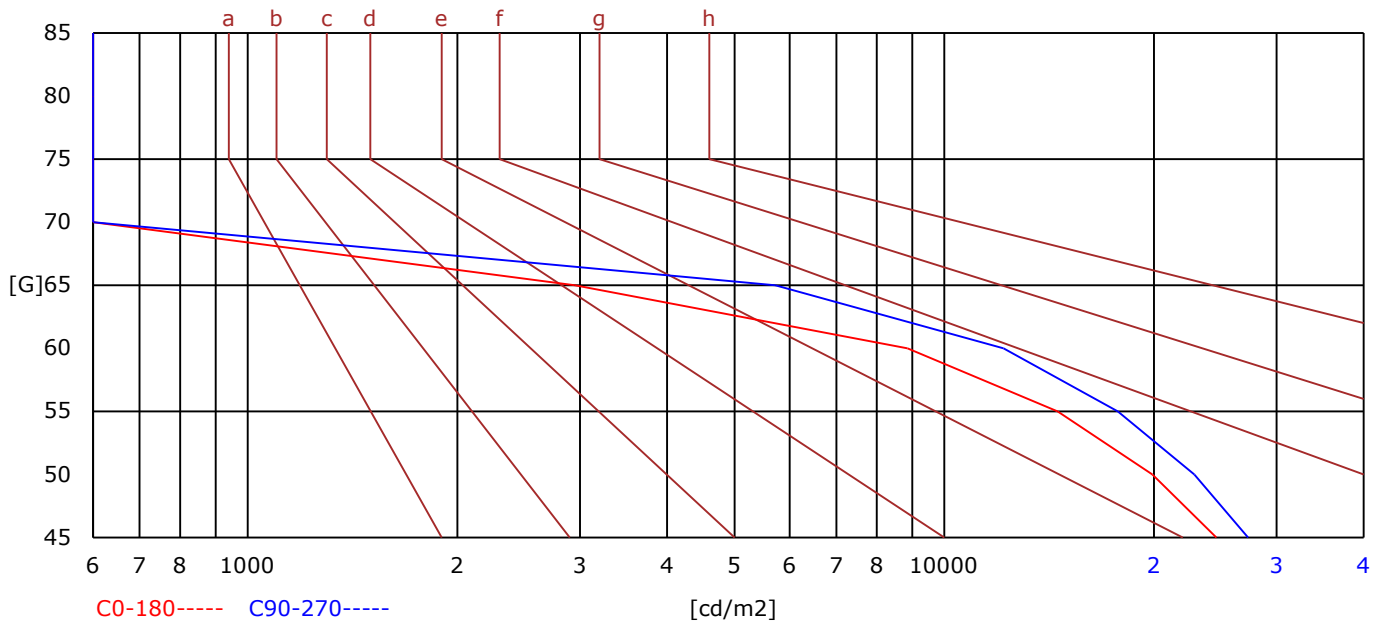
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	24578	19883	14551	8853	2949	0	0	0	0
C90	27284	22842	17748	12161	5719	304	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



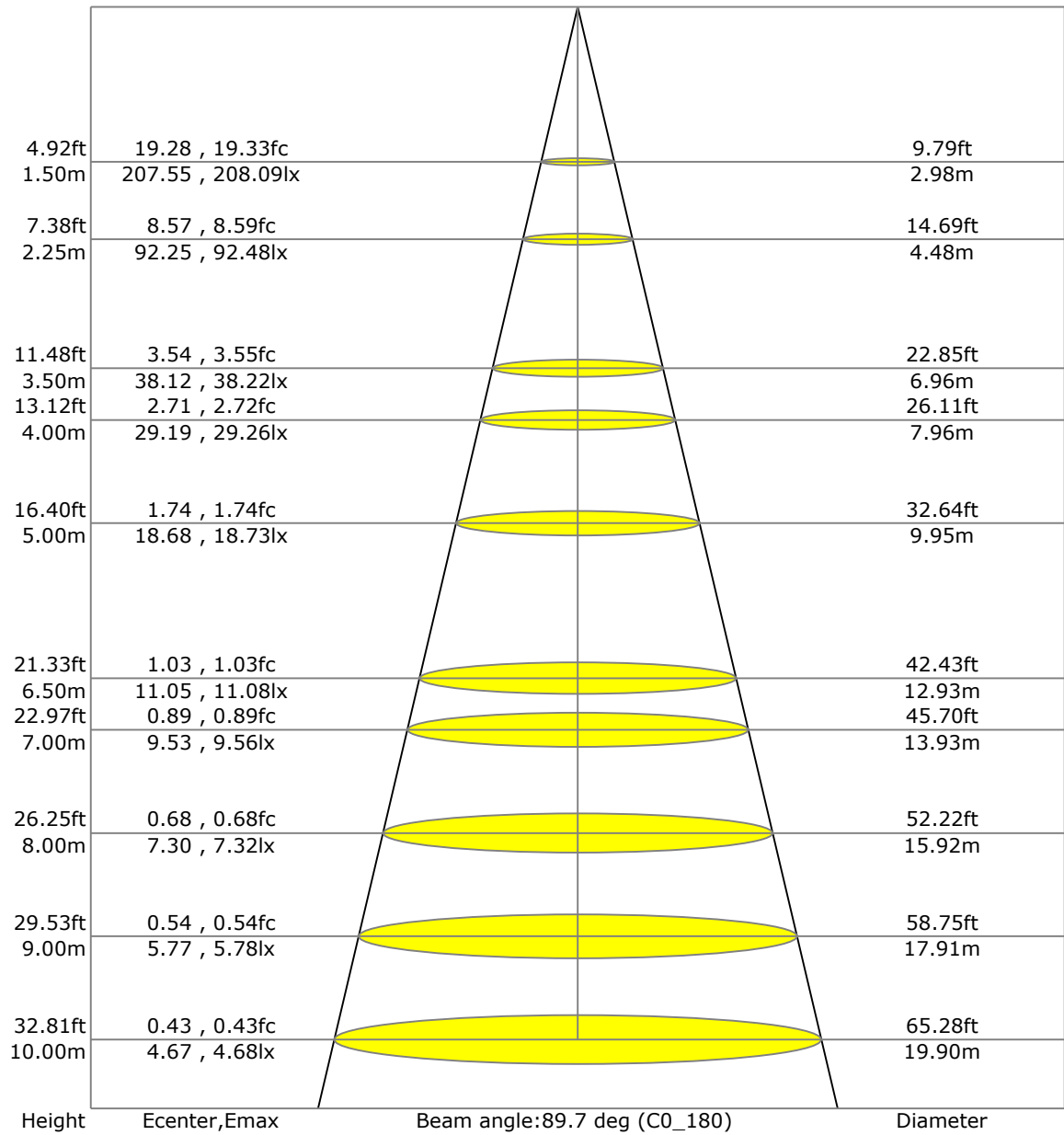
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Temperature: 25
Operators: QC01
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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Test Distance: 6.7 m
Remarks:

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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: 2024/8/6 17:53:47

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 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	17.77	17.84	17.97	18.03	18.27	17.86	17.92	18.06	18.11	18.35
3H	17.74	17.80	17.94	17.99	18.24	17.82	17.88	18.02	18.07	18.32
4H	17.71	17.77	17.92	17.97	18.22	17.79	17.85	18.00	18.05	18.30
6H	17.69	17.75	17.90	17.95	18.20	17.77	17.83	17.98	18.03	18.28
8H	17.67	17.73	17.89	17.93	18.19	17.75	17.81	17.97	18.02	18.27
12H	17.66	17.72	17.88	17.92	18.18	17.74	17.80	17.96	18.00	18.26
4H 2H	17.81	17.87	18.02	18.07	18.31	17.91	17.97	18.12	18.16	18.41
3H	17.76	17.82	17.98	18.02	18.28	17.86	17.91	18.08	18.12	18.38
4H	17.73	17.79	17.96	18.00	18.26	17.83	17.88	18.06	18.10	18.35
6H	17.70	17.75	17.94	17.97	18.24	17.80	17.85	18.03	18.07	18.33
8H	17.68	17.73	17.93	17.96	18.23	17.78	17.83	18.02	18.06	18.32
12H	17.67	17.71	17.91	17.95	18.21	17.76	17.81	18.01	18.04	18.31
8H 4H	17.77	17.83	17.99	18.03	18.29	17.87	17.93	18.09	18.13	18.38
6H	17.65	17.69	17.90	17.93	18.20	17.74	17.79	18.00	18.03	18.30
8H	17.63	17.67	17.89	17.92	18.19	17.73	17.77	17.99	18.01	18.29
12H	17.61	17.65	17.88	17.90	18.18	17.71	17.74	17.97	18.00	18.28
12H 4H	17.67	17.71	17.91	17.95	18.21	17.76	17.81	18.01	18.04	18.31
6H	17.63	17.67	17.89	17.92	18.19	17.73	17.77	17.99	18.01	18.29

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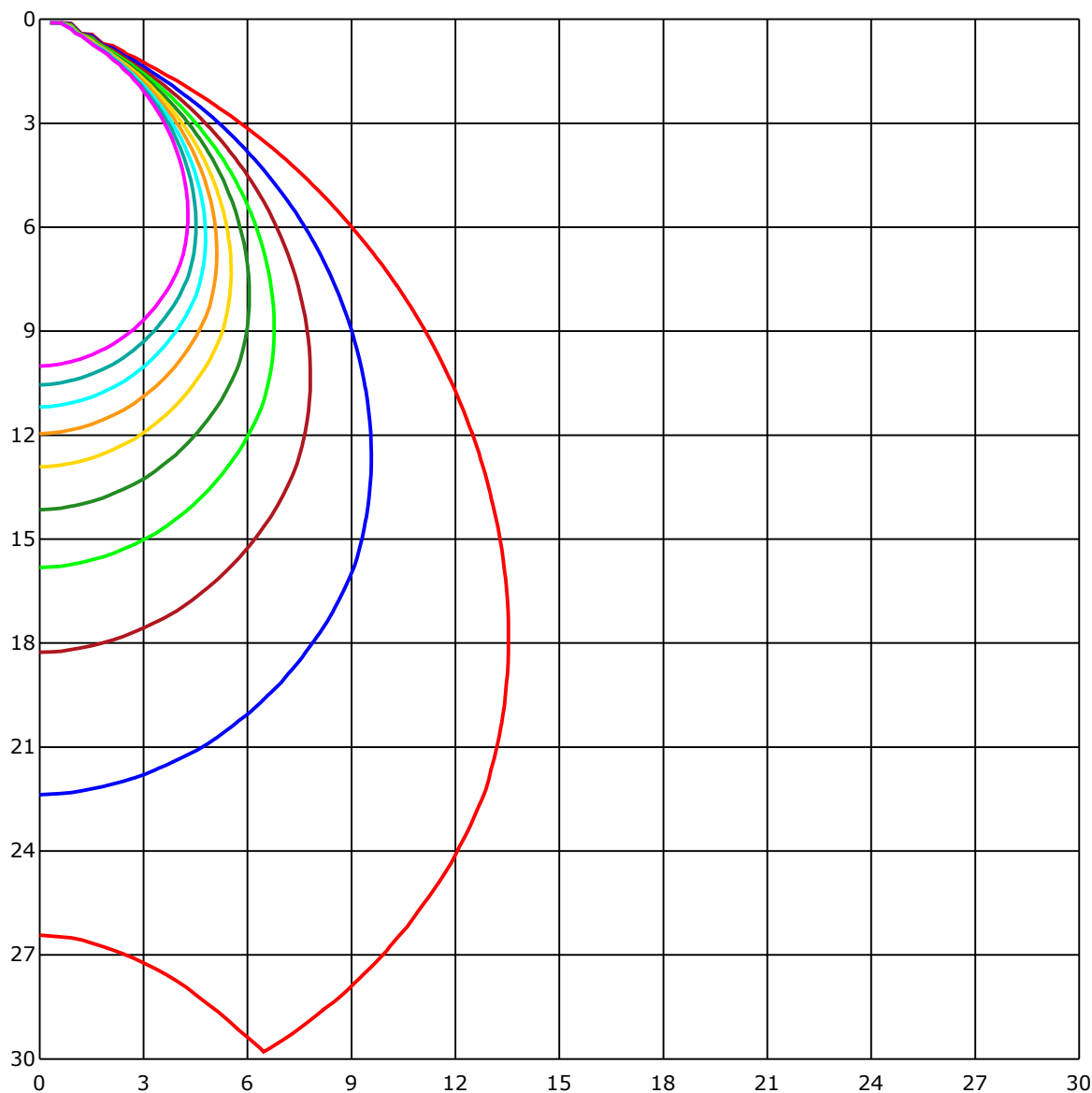
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G Interval: 1.0 Deg
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Remarks:

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SPACE ISOLX DIAGRAM



Unit of illumination:lx

4.665	2.333
4.199	1.866
3.732	1.4
3.266	0.933
2.799	0.467

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Remarks:

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	466.99	464.84	466.36	467.39	466.99	464.84	466.36	467.39	466.99	
G1	466.36	464.21	465.91	466.18	467.71	466.41	467.3	466.86	466.36	
G2	466.32	461.92	465.78	464.97	467.66	467.13	466.23	467.35	466.32	
G3	464.52	460.71	464.7	466.05	467.08	467.66	466.27	466.63	464.52	
G4	463.18	460.98	463.31	463.58	467.44	468.2	465.55	467.04	463.18	
G5	461.51	458.06	462.14	461.33	466.68	466.63	465.24	464.39	461.51	
G6	459.67	454.11	459.36	459.76	465.28	465.64	463.0	463.44	459.67	
G7	457.83	453.34	458.46	458.87	464.03	466.14	462.05	463.62	457.83	
G8	455.54	450.16	455.32	455.81	463.71	463.8	460.44	462.1	455.54	
G9	452.36	446.61	454.02	452.45	461.92	463.58	458.87	458.87	452.36	
G10	449.98	443.06	452.4	450.38	459.63	460.98	456.35	458.24	449.98	
G11	446.84	440.1	447.91	447.96	455.99	459.72	455.05	454.51	446.84	
G12	444.64	436.29	444.82	444.82	454.29	457.34	451.55	453.43	444.64	
G13	441.22	432.34	442.57	440.73	450.88	456.13	449.12	449.35	441.22	
G14	437.45	429.06	437.77	436.96	448.81	452.67	445.98	447.51	437.45	
G15	433.14	424.93	435.16	433.32	445.04	451.64	442.97	443.6	433.14	
G16	428.79	420.22	430.5	430.14	441.85	448.36	439.97	441.58	428.79	
G17	425.65	416.67	427.17	426.28	439.07	446.34	436.11	439.07	425.65	
G18	420.62	411.28	422.5	421.88	435.97	441.76	431.44	433.95	420.62	
G19	416.0	406.43	418.64	417.07	431.3	438.22	428.12	430.05	416.0	
G20	412.0	400.46	413.53	412.9	427.53	433.77	423.49	426.72	412.0	
G21	406.21	397.05	409.26	407.33	422.91	430.36	418.82	421.52	406.21	
G22	401.99	390.14	404.05	402.98	418.55	426.54	414.33	416.35	401.99	
G23	396.11	385.16	398.89	397.86	414.29	423.04	410.56	412.05	396.11	
G24	391.13	380.94	393.73	392.25	409.13	417.3	404.82	407.24	391.13	
G25	386.23	374.56	388.75	386.14	404.73	412.63	401.09	401.95	386.23	
G26	380.94	367.83	382.51	381.83	400.19	408.18	395.08	397.14	380.94	
G27	374.29	362.71	377.26	374.92	394.18	404.86	391.13	391.22	374.29	
G28	368.95	355.66	371.37	369.98	388.93	398.17	383.85	386.91	368.95	
G29	362.17	348.53	366.3	363.88	383.32	393.86	379.32	381.25	362.17	
G30	356.97	340.49	358.94	358.13	377.61	387.85	372.45	375.73	356.97	
G31	347.9	332.46	351.98	349.74	372.0	382.55	367.33	369.09	347.9	
G32	340.27	323.75	344.44	341.7	366.21	377.7	360.29	363.88	340.27	
G33	331.74	314.99	336.14	333.13	359.3	371.69	354.63	355.93	331.74	
G34	323.34	305.21	326.98	325.45	352.39	365.0	346.91	348.71	323.34	
G35	313.78	295.65	318.27	315.85	343.59	357.95	338.34	340.58	313.78	
G36	305.16	286.53	309.65	307.54	336.63	350.28	330.12	332.05	305.16	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	295.24	276.79	300.36	297.71	326.71	342.91	321.55	324.55	295.24	
G38	285.55	266.87	290.98	288.42	319.21	333.94	312.3	314.59	285.55	
G39	276.21	256.86	281.82	278.32	308.48	325.68	303.23	305.61	276.21	
G40	265.7	246.58	271.49	268.98	299.87	317.06	293.94	295.91	265.7	
G41	255.78	237.2	261.75	258.12	289.99	308.26	284.06	285.95	255.78	
G42	245.64	226.34	251.07	248.24	280.2	298.61	274.19	276.66	245.64	
G43	234.73	215.97	241.51	238.14	270.73	289.14	264.18	266.74	234.73	
G44	224.72	205.24	231.68	227.41	260.95	278.77	253.0	256.14	224.72	
G45	214.39	195.27	221.44	216.77	251.38	268.76	242.9	245.82	214.39	
G46	204.11	184.72	210.76	206.63	240.21	259.02	232.49	235.85	204.11	
G47	193.43	174.89	200.52	196.12	230.02	248.96	222.43	225.75	193.43	
G48	183.24	164.21	190.15	185.93	219.69	238.77	211.48	215.16	183.24	
G49	172.87	154.6	179.92	175.21	209.5	228.49	201.29	204.7	172.87	
G50	162.91	143.6	169.46	164.97	199.36	218.34	190.38	194.51	162.91	
G51	152.49	133.91	159.31	155.14	188.49	207.53	180.37	184.27	152.49	
G52	142.12	123.27	149.03	144.64	178.71	197.7	169.28	174.58	142.12	
G53	132.16	113.53	138.98	134.58	167.84	186.92	159.18	163.94	132.16	
G54	121.79	104.1	128.16	124.48	157.38	176.01	148.59	153.57	121.79	
G55	111.78	93.78	118.6	114.38	147.01	165.78	138.08	142.93	111.78	
G56	102.17	84.48	107.96	105.04	136.73	154.83	127.71	132.92	102.17	
G57	92.43	75.64	98.53	95.71	126.77	144.95	118.11	122.68	92.43	
G58	83.27	66.62	88.39	86.05	116.89	134.4	108.59	112.94	83.27	
G59	74.34	58.0	78.92	76.94	106.57	123.94	98.85	102.62	74.34	
G60	65.63	49.74	69.58	68.32	96.92	113.57	90.05	93.15	65.63	
G61	57.19	41.39	60.65	59.17	87.27	103.83	80.89	83.67	57.19	
G62	48.57	33.62	51.71	50.77	77.97	94.18	71.46	74.29	48.57	
G63	40.22	26.62	43.54	42.15	68.82	84.93	63.25	65.27	40.22	
G64	32.86	19.93	35.78	34.52	60.38	75.59	54.95	56.79	32.86	
G65	25.77	14.01	28.55	27.16	51.62	66.53	46.28	48.21	25.77	
G66	19.39	8.98	21.91	20.42	42.87	57.73	38.43	40.13	19.39	
G67	13.24	4.58	15.89	14.32	34.88	49.51	30.88	32.5	13.24	
G68	8.26	1.3	10.82	9.02	27.92	40.76	23.88	25.59	8.26	
G69	4.13	0.0	6.55	4.49	21.41	33.44	17.64	19.53	4.13	
G70	1.03	0.0	3.55	1.17	15.8	26.13	12.12	13.96	1.03	
G71	0.0	0.0	2.06	0.0	10.59	19.98	7.36	9.16	0.0	
G72	0.0	0.0	1.66	0.0	6.42	14.36	3.37	5.43	0.0	
G73	0.0	0.0	1.39	0.0	3.41	9.56	0.31	2.87	0.0	

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Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks: