

Report No.:

Test Time: 2024/11/13 13:17:54

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBDL226CT090-15.4W
Lamp Type:
Luminous Width: 85 mm
Luminous Length: 85 mm
Luminous Height: 45 mm

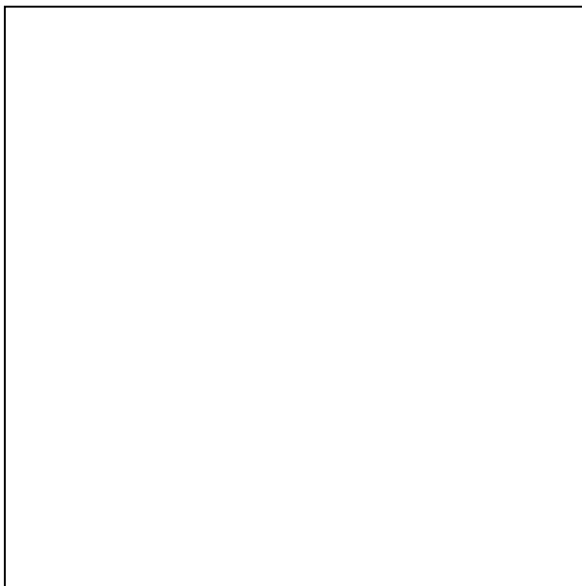
Voltage(V): 219.80 V
Current(A): 0.0730 A
Power(W): 15.37 W
Power Factor: 0.9530
Lamp Luminous Flux: 1104.86

Photometric Results

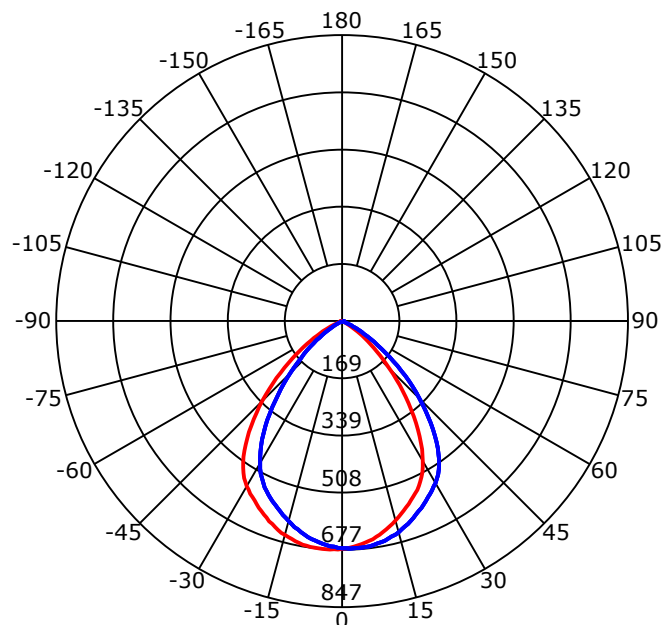
CIE Class: Direct
Luminaire Luminous Flux: 1104.864 lm
Downward Ratio: 0.00%
Luminaire Efficacy Rating(LER): 71.88 lm/W
Beam Angle(50%) C0-180,C90-270: 82.5,82.9
Field Angle(10%) C0-180,C90-270: 116.3,116.3
S/MH C0-180,C90-270: 1.155,1.155

Max. Intensity: 677.36 cd
Max.Intensity Angle: C=180 Gamma=4
Upward Ratio: 100.00%
Efficacy: 100.00%
Center Intensity: 674.61 cd
Effective Luminous Flux: 1074.61 lm
ERP(ϕ use)(120deg): 1084.31 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 82.5 deg,82.9 deg

C0-180 — C90-270 —

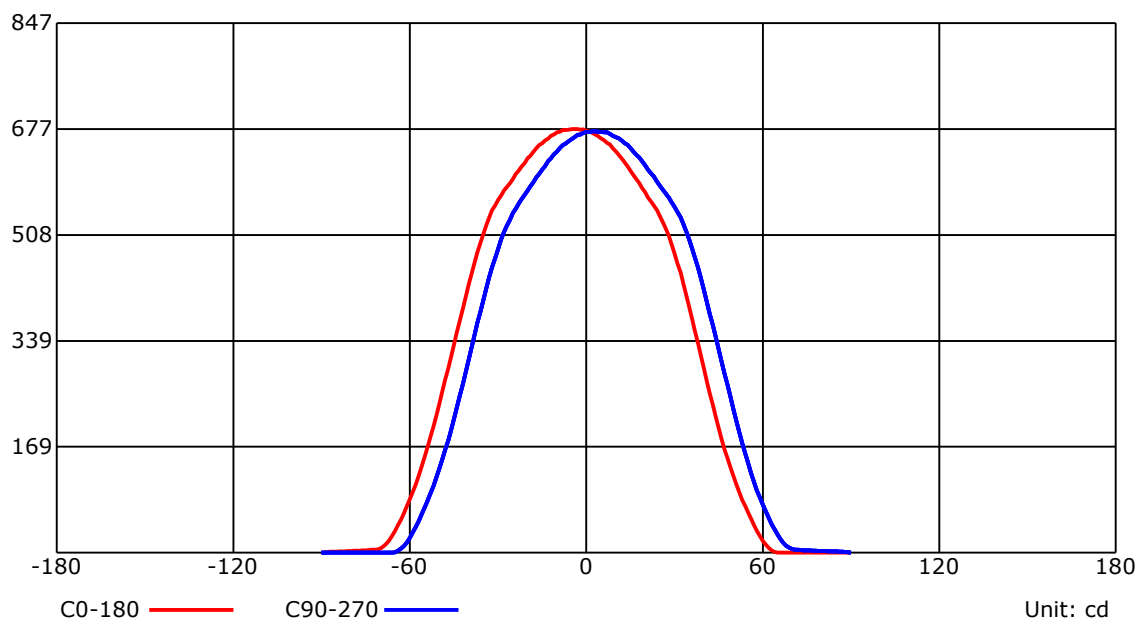
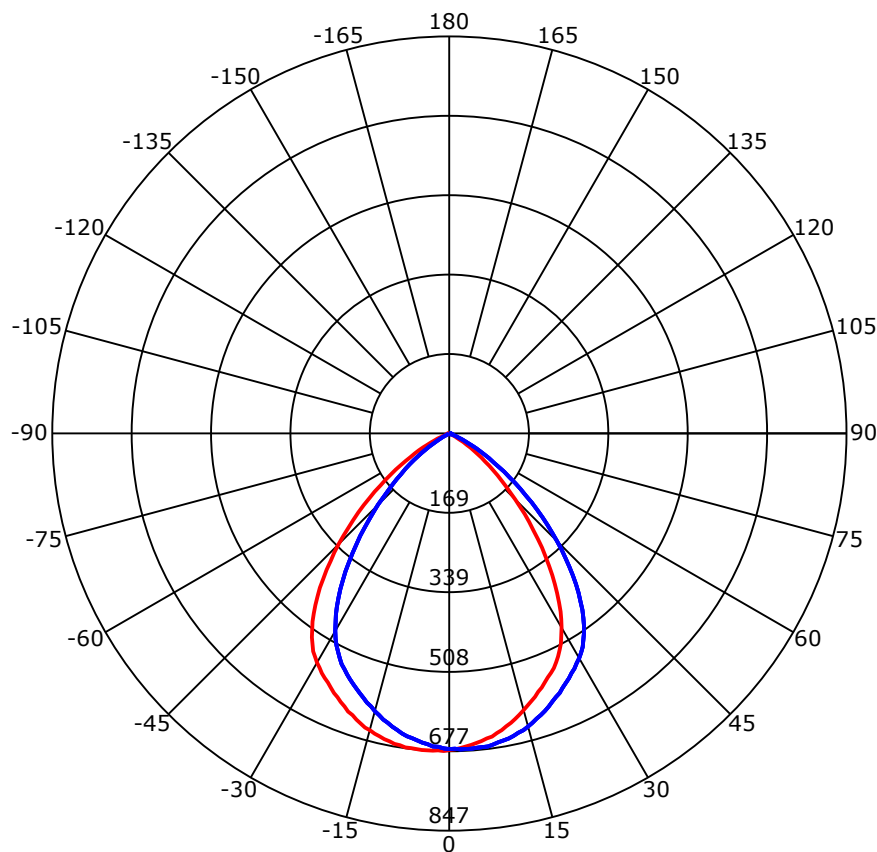
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/11/13 13:17:54

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks:

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Luminous Intensity Distribution Curve



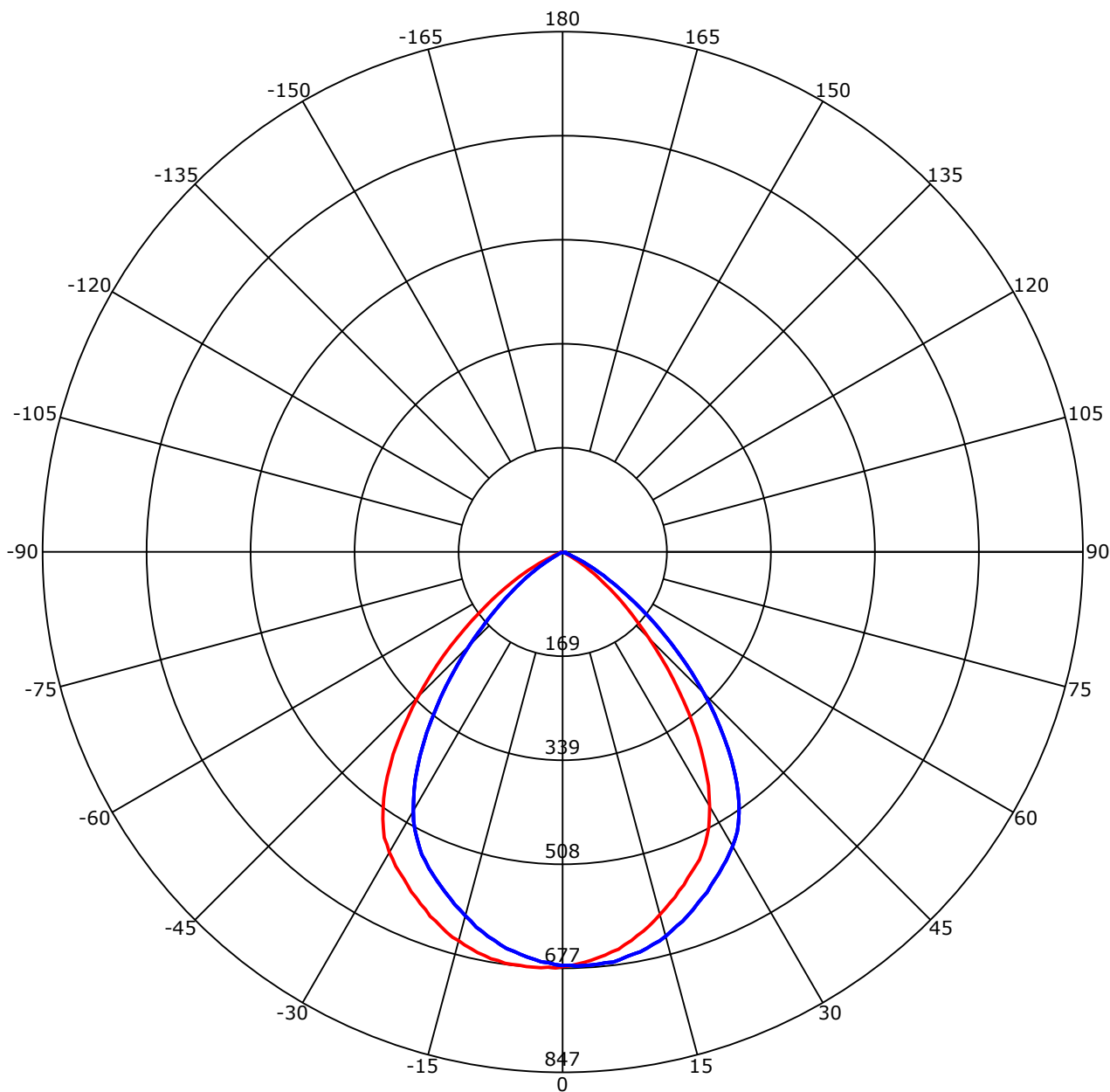
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Test Speed: High
Temperature: 25
Operators: QC01
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Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
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Remarks:

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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: 2024/11/13 13:17:54

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks:

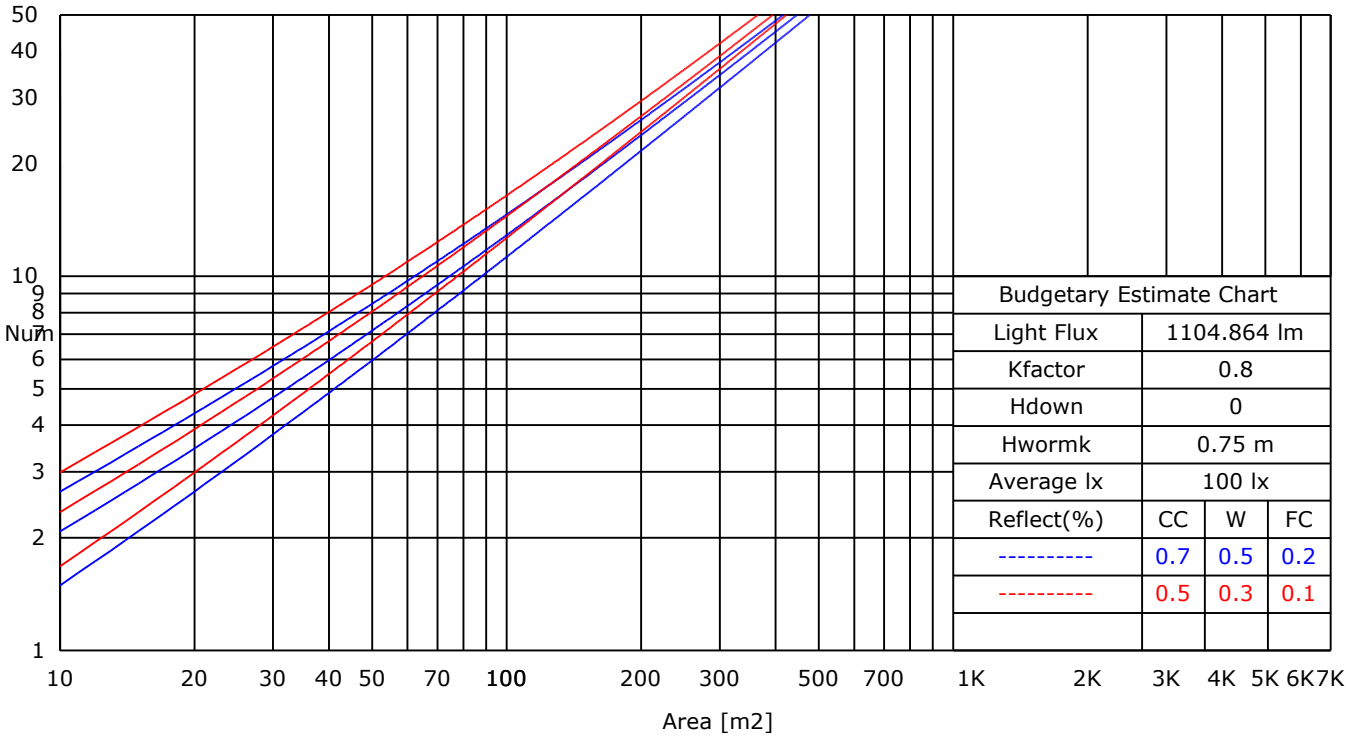
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UTILIZATION FACTORS TABLE

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	1.08	1.06	1.07	1.06	1.05	1.03	1.02	1.00	0.98	0.97	0.95	0.92	0.90	0.88	0.83
2	1.02	1.00	0.99	1.00	0.98	0.97	0.97	0.95	0.93	0.93	0.90	0.88	0.87	0.84	0.82	0.77
3	0.95	0.93	0.92	0.94	0.92	0.90	0.91	0.88	0.86	0.87	0.84	0.82	0.83	0.79	0.76	0.72
4	0.89	0.87	0.86	0.88	0.85	0.84	0.85	0.82	0.80	0.82	0.79	0.76	0.79	0.75	0.71	0.67
5	0.83	0.81	0.80	0.82	0.80	0.78	0.80	0.77	0.75	0.78	0.74	0.71	0.75	0.70	0.67	0.63
6	0.78	0.76	0.75	0.77	0.75	0.73	0.76	0.72	0.70	0.73	0.69	0.66	0.71	0.66	0.63	0.59
7	0.73	0.72	0.71	0.73	0.70	0.69	0.71	0.68	0.66	0.70	0.65	0.62	0.67	0.63	0.59	0.55
8	0.69	0.68	0.66	0.69	0.66	0.65	0.68	0.64	0.62	0.66	0.62	0.59	0.64	0.59	0.56	0.52
9	0.65	0.64	0.63	0.65	0.63	0.61	0.64	0.61	0.59	0.63	0.59	0.56	0.61	0.56	0.53	0.49
10	0.62	0.61	0.60	0.62	0.60	0.58	0.61	0.58	0.55	0.60	0.56	0.53	0.58	0.53	0.50	0.47

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



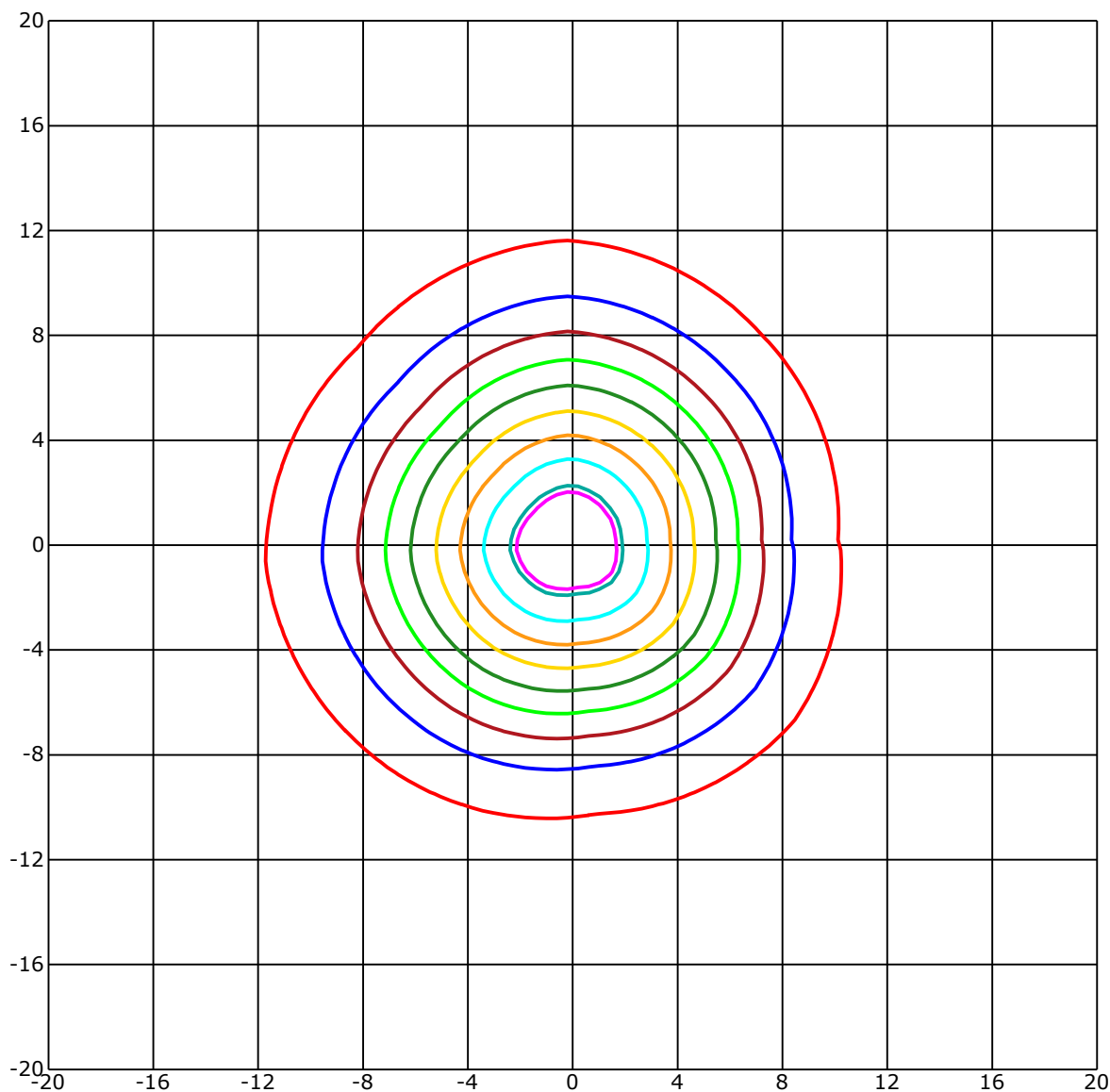
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Operators: QC01
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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Humidity: 60
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ISOLX DIAGRAM



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

6.225(92%Emax)	3.383(50%Emax)
6.09(90%Emax)	2.707(40%Emax)
5.413(80%Emax)	2.03(30%Emax)
4.736(70%Emax)	1.353(20%Emax)
4.06(60%Emax)	0.677(10%Emax)

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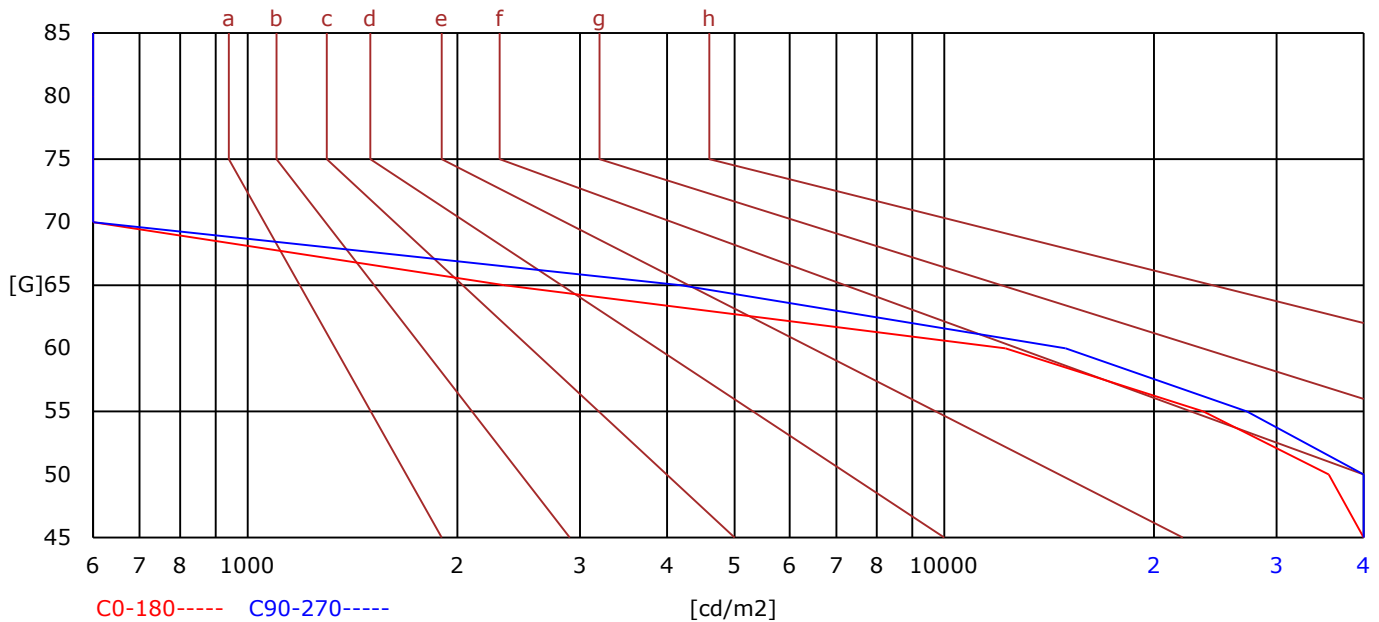
G Range: 0 - 90 Deg
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	49228	35623	23537	12243	2339	0	0	0	0
C90	55628	41478	27180	14926	4193	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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Remarks:

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	18.61	18.67	18.81	18.86	19.10	19.47	19.53	19.67	19.72	19.96
3H	18.58	18.63	18.78	18.83	19.07	19.43	19.49	19.64	19.69	19.93
4H	18.55	18.61	18.76	18.81	19.06	19.41	19.47	19.62	19.67	19.92
6H	18.53	18.59	18.75	18.79	19.04	19.39	19.45	19.61	19.65	19.90
8H	18.52	18.57	18.74	18.78	19.03	19.38	19.43	19.60	19.64	19.89
12H	18.51	18.56	18.73	18.77	19.02	19.37	19.42	19.59	19.63	19.88
4H 2H	18.55	18.61	18.76	18.81	19.06	19.48	19.54	19.69	19.73	19.98
3H	18.51	18.56	18.73	18.77	19.02	19.43	19.49	19.65	19.69	19.95
4H	18.48	18.53	18.71	18.75	19.01	19.40	19.46	19.63	19.67	19.93
6H	18.45	18.50	18.69	18.72	18.99	19.38	19.43	19.61	19.65	19.91
8H	18.44	18.49	18.68	18.71	18.98	19.36	19.41	19.60	19.63	19.90
12H	18.42	18.47	18.67	18.70	18.97	19.34	19.39	19.59	19.62	19.89
8H 4H	18.52	18.57	18.74	18.78	19.03	19.45	19.50	19.67	19.71	19.96
6H	18.40	18.45	18.66	18.69	18.96	19.33	19.38	19.59	19.61	19.89
8H	18.39	18.43	18.65	18.67	18.95	19.31	19.35	19.57	19.60	19.88
12H	18.37	18.40	18.63	18.66	18.94	19.29	19.33	19.56	19.59	19.87
12H 4H	18.42	18.47	18.67	18.70	18.97	19.35	19.40	19.60	19.63	19.90
6H	18.39	18.43	18.65	18.67	18.95	19.32	19.36	19.58	19.60	19.88

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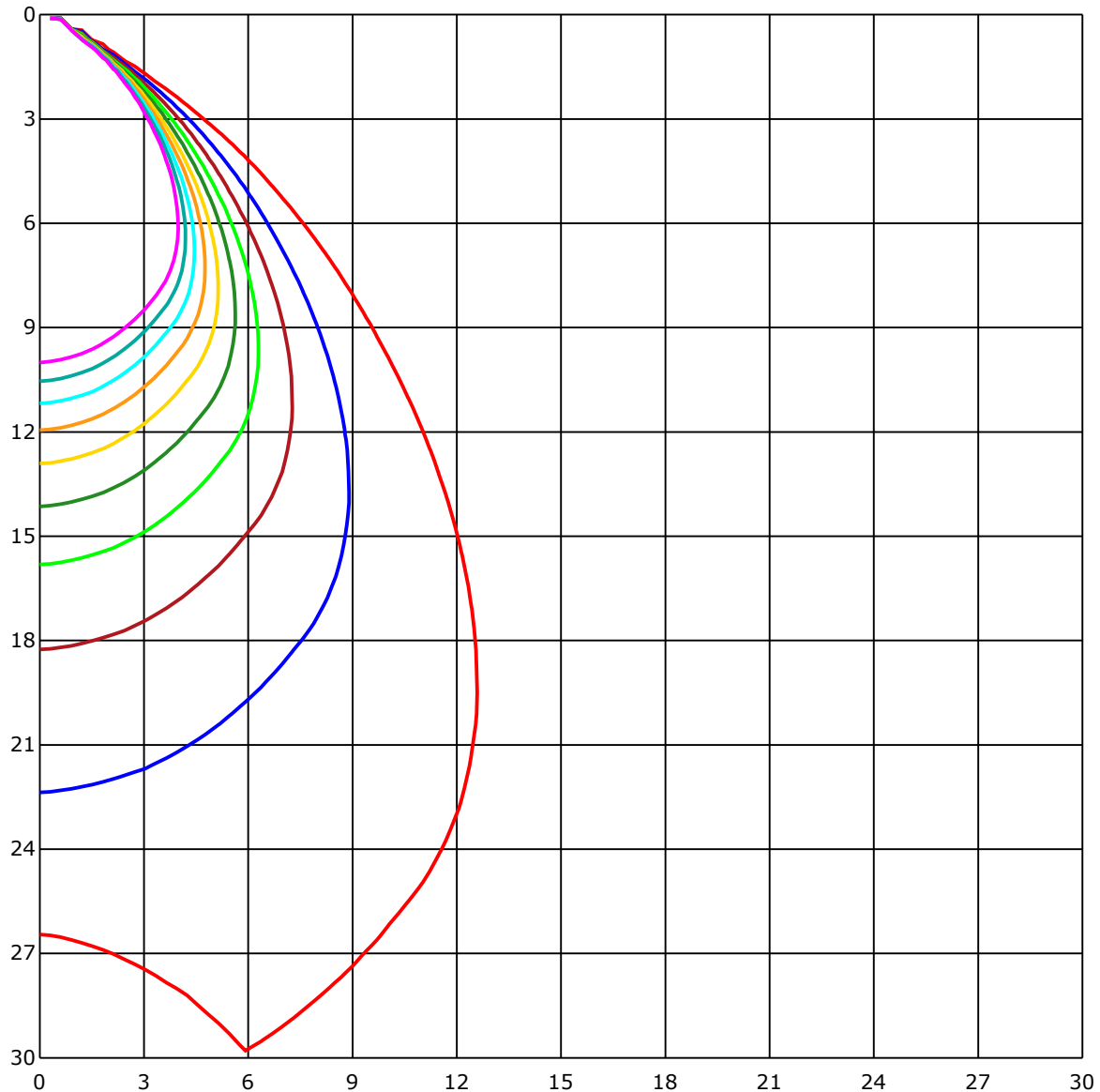
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks:

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks:

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SPACE ISOLX DIAGRAM



Unit of illumination:lx



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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
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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	674.61	672.72	672.67	675.98	674.61	672.72	672.67	675.98	674.61	
G1	673.53	671.14	672.56	676.59	676.95	671.8	671.44	674.96	673.53	
G2	671.03	671.65	674.04	674.81	676.14	673.18	668.74	674.1	671.03	
G3	668.59	668.79	673.79	675.73	677.16	671.14	667.97	672.97	668.59	
G4	665.88	667.67	673.53	673.33	677.36	670.83	664.45	671.24	665.88	
G5	662.36	666.04	672.87	673.89	677.21	668.94	661.65	669.5	662.36	
G6	659.4	663.69	672.05	670.17	676.19	667.77	658.08	666.65	659.4	
G7	655.42	659.91	672.31	669.66	675.83	665.73	654.61	665.32	655.42	
G8	652.72	658.43	669.61	666.7	675.73	663.43	651.65	660.27	652.72	
G9	646.65	653.54	666.6	664.5	673.08	660.32	647.21	657.77	646.65	
G10	642.16	651.65	664.4	659.71	672.05	658.08	641.55	653.79	642.16	
G11	635.89	645.43	662.67	656.95	668.64	653.89	636.96	650.37	635.89	
G12	630.48	642.31	658.94	651.9	666.49	651.5	630.84	644.46	630.48	
G13	624.41	636.91	654.76	649.81	662.26	645.22	626.35	639.51	624.41	
G14	617.88	631.04	652.16	642.16	659.3	641.5	618.69	633.54	617.88	
G15	610.79	624.77	647.11	637.62	654.81	635.27	612.83	628.64	610.79	
G16	604.05	619.66	641.65	631.04	652.01	630.17	605.84	622.52	604.05	
G17	597.06	613.44	635.78	626.09	646.7	623.74	600.18	615.74	597.06	
G18	590.79	606.45	631.6	618.9	641.09	618.49	592.52	609.0	590.79	
G19	582.63	600.18	625.48	613.49	635.02	611.86	586.1	603.34	582.63	
G20	576.4	593.03	619.51	606.04	630.84	605.69	579.01	597.06	576.4	
G21	567.78	585.59	612.52	601.2	623.34	598.65	572.53	589.92	567.78	
G22	561.05	578.7	606.35	592.58	617.67	592.58	565.33	583.24	561.05	
G23	554.37	570.89	601.35	586.2	610.99	584.87	558.24	576.05	554.37	
G24	547.68	564.21	593.6	578.8	605.48	578.8	550.13	570.74	547.68	
G25	538.14	557.58	586.91	572.58	597.73	571.35	543.04	564.31	538.14	
G26	528.81	551.36	580.84	564.62	590.74	565.18	532.69	556.05	528.81	
G27	517.64	542.12	573.85	558.04	584.87	558.91	522.74	548.81	517.64	
G28	506.77	534.98	567.68	549.93	578.9	549.88	512.38	540.54	506.77	
G29	492.59	524.01	560.28	541.87	571.0	541.05	500.55	530.64	492.59	
G30	478.3	514.01	553.04	532.94	564.21	531.66	486.06	518.81	478.3	
G31	462.64	502.08	544.93	522.48	555.44	520.49	471.47	506.31	462.64	
G32	447.9	487.95	536.31	509.53	547.94	508.81	456.52	491.77	447.9	
G33	429.23	473.82	525.08	497.08	536.1	493.0	440.76	477.69	429.23	
G34	410.61	458.15	513.1	481.42	524.01	478.41	422.85	460.4	410.61	
G35	392.5	440.96	500.44	466.27	510.04	463.0	404.59	444.48	392.5	
G36	373.17	424.84	485.85	450.25	496.01	445.76	386.17	426.93	373.17	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	353.27	406.32	470.86	433.51	480.5	428.41	367.76	408.72	353.27	
G38	333.53	387.65	454.53	415.35	463.66	410.25	347.76	389.39	333.53	
G39	313.63	369.08	437.24	397.4	445.91	390.71	328.12	371.23	313.63	
G40	293.74	349.8	419.54	378.01	428.97	371.18	308.63	351.13	293.74	
G41	273.59	329.96	400.66	359.85	409.44	351.54	289.35	331.95	273.59	
G42	254.56	310.47	381.58	340.67	390.71	332.05	270.07	311.44	254.56	
G43	235.38	290.93	363.06	322.0	370.82	313.02	251.09	292.97	235.38	
G44	216.6	271.6	344.09	302.97	352.81	294.15	232.67	272.97	216.6	
G45	198.6	251.5	324.75	284.2	333.12	274.96	214.36	253.9	198.6	
G46	181.15	233.03	305.37	265.17	313.38	256.45	196.25	234.82	181.15	
G47	165.18	214.31	286.29	246.8	294.55	237.37	179.11	216.71	165.18	
G48	150.24	197.22	267.52	228.24	275.98	220.07	163.7	199.21	150.24	
G49	135.9	180.89	248.39	210.99	257.11	203.65	148.7	182.43	135.9	
G50	122.48	165.44	229.15	192.63	237.88	186.76	134.22	166.1	122.48	
G51	109.12	149.88	210.79	175.64	219.31	170.79	120.39	150.44	109.12	
G52	96.72	136.1	192.98	159.32	202.01	155.59	106.67	135.44	96.72	
G53	84.84	122.69	175.64	143.45	184.47	140.8	94.22	121.36	84.84	
G54	74.17	109.88	158.55	127.53	168.04	126.77	82.39	107.54	74.17	
G55	64.02	97.54	142.89	112.64	152.74	113.15	71.73	95.29	64.02	
G56	54.64	86.01	127.33	98.66	137.79	100.96	61.32	83.76	54.64	
G57	44.23	74.53	113.1	85.75	123.45	88.97	51.06	73.05	44.23	
G58	35.0	64.43	99.43	73.97	109.93	77.69	41.58	61.83	35.0	
G59	26.17	54.38	87.54	63.46	97.08	66.93	32.29	51.37	26.17	
G60	18.72	44.23	76.21	53.92	85.55	56.78	23.77	42.29	18.72	
G61	12.7	34.59	66.01	44.13	74.68	46.52	16.53	33.77	12.7	
G62	7.86	25.91	55.91	35.05	63.87	37.14	10.87	25.86	7.86	
G63	3.93	18.11	45.91	26.78	53.36	28.41	6.63	19.69	3.93	
G64	1.28	12.04	36.98	19.39	44.18	20.86	3.11	14.39	1.28	
G65	0.0	7.14	28.98	12.8	35.05	14.79	0.51	10.46	0.0	
G66	0.0	3.42	21.48	7.7	27.04	10.2	0.0	7.4	0.0	
G67	0.0	0.56	15.61	4.08	20.15	7.14	0.0	5.61	0.0	
G68	0.0	0.0	10.92	1.12	14.59	5.41	0.0	4.95	0.0	
G69	0.0	0.0	7.65	0.0	10.05	4.74	0.0	4.59	0.0	
G70	0.0	0.0	5.66	0.0	6.94	4.34	0.0	4.23	0.0	
G71	0.0	0.0	4.9	0.0	5.36	3.98	0.0	4.03	0.0	
G72	0.0	0.0	4.49	0.0	4.95	3.83	0.0	3.67	0.0	
G73	0.0	0.0	4.34	0.0	4.49	3.37	0.0	3.52	0.0	

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Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 2)

[illegible]

C Range: 0 - 360 Deg
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