

Report No.:

Test Time: 2024/9/20 11:31:55

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP156CT085H89-45°-15W
Lamp Type:
Luminous Width: 67 mm
Luminous Length: 67 mm
Luminous Height: 70 mm

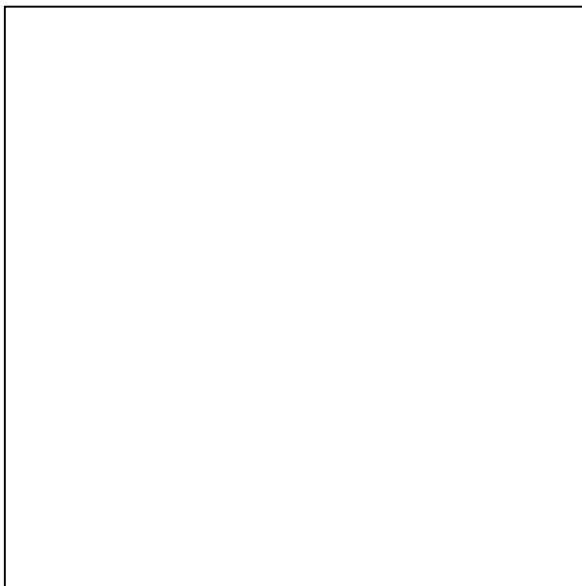
Voltage(V): 219.80 V
Current(A): 0.0710 A
Power(W): 15.00 W
Power Factor: 0.9500
Lamp Luminous Flux: 1379.22

Photometric Results

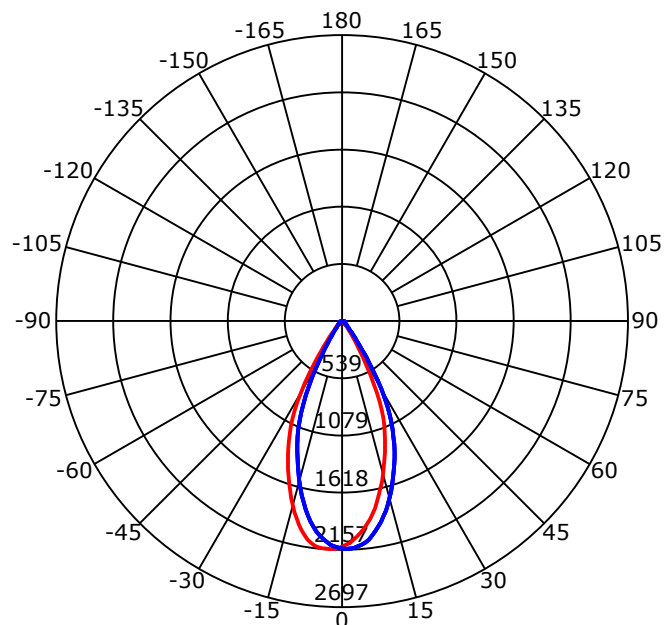
CIE Class: Direct
Luminaire Luminous Flux: 1379.217 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 91.95 lm/W
Beam Angle(50%) C0-180,C90-270: 48.1,48.2
Field Angle(10%) C0-180,C90-270: 70.6,71.5
S/MH C0-180,C90-270: 0.768,0.768

Max. Intensity: 2157.37 cd
Max.Intensity Angle: C=225 Gamma=1
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 2127.27 cd
Effective Luminous Flux: 1221.99 lm
ERP(ϕ use)(120deg): 1342.94 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 48.1 deg,48.2 deg

C0-180 — C90-270 —

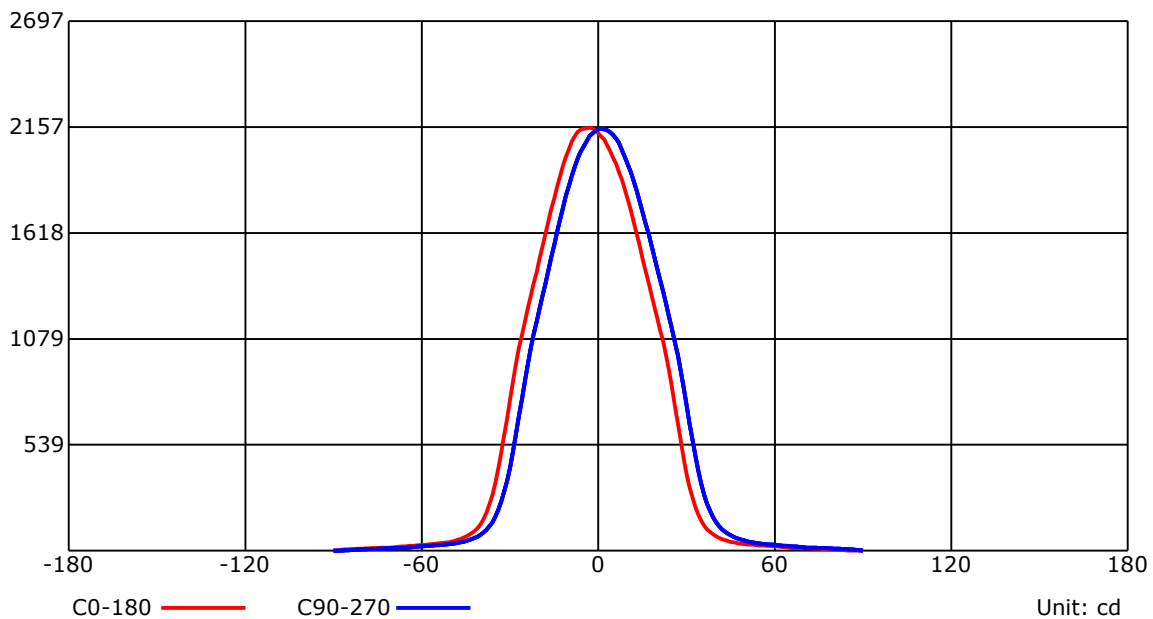
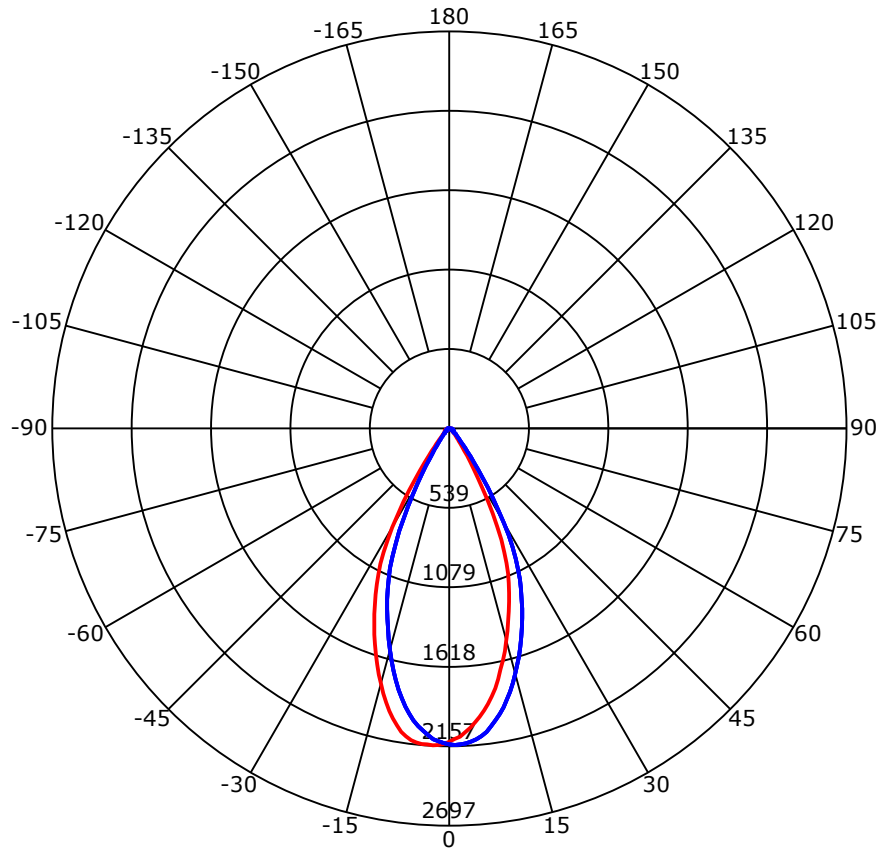
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/9/20 11:31:55

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



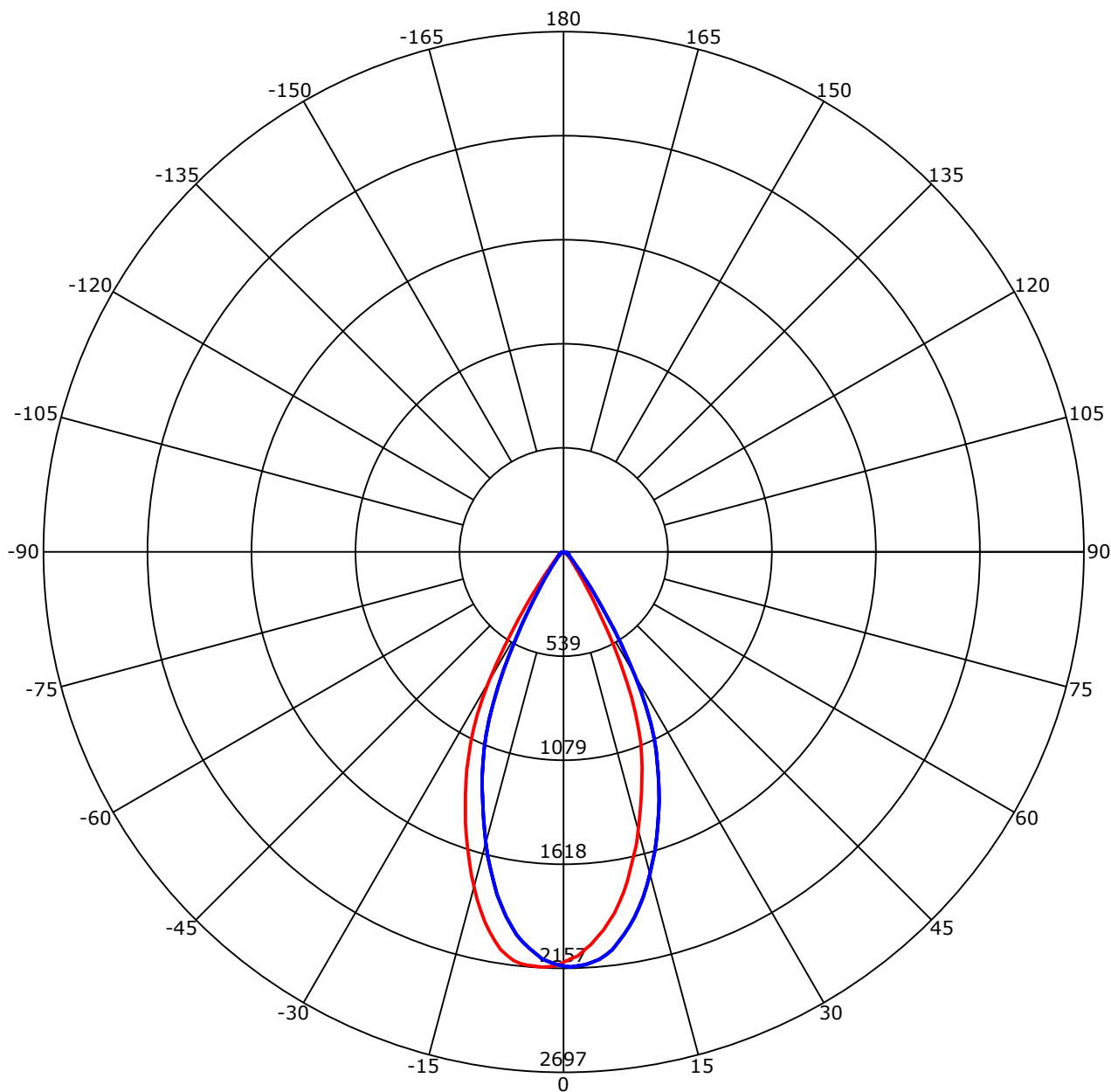
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Operators: QC01
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Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

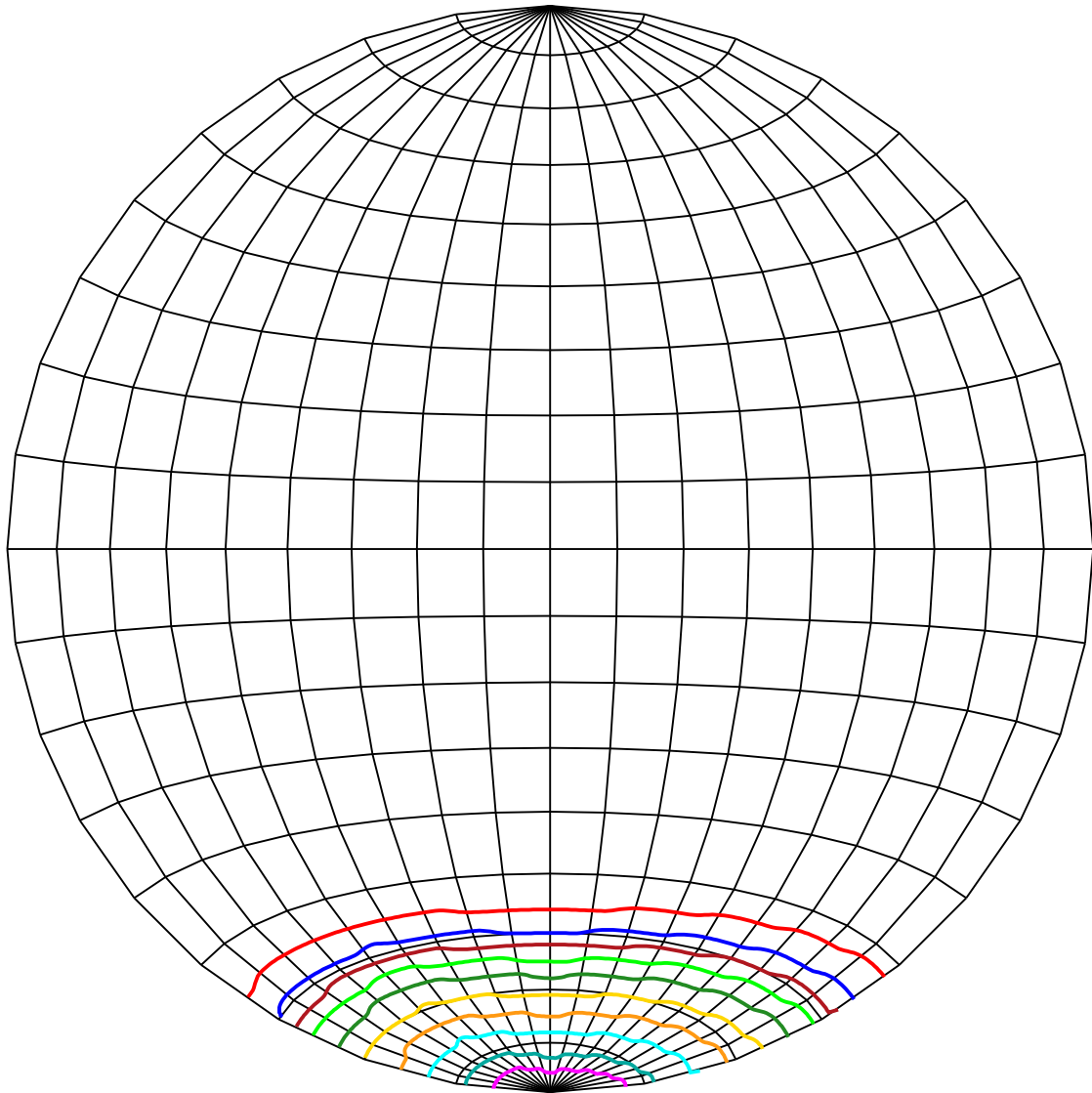
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ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd Imax(100%): 2157.37 cd

2049.501(95%Imax)	1078.685(50%Imax)
1941.633(90%Imax)	862.948(40%Imax)
1725.896(80%Imax)	647.211(30%Imax)
1510.159(70%Imax)	431.474(20%Imax)
1294.422(60%Imax)	215.737(10%Imax)

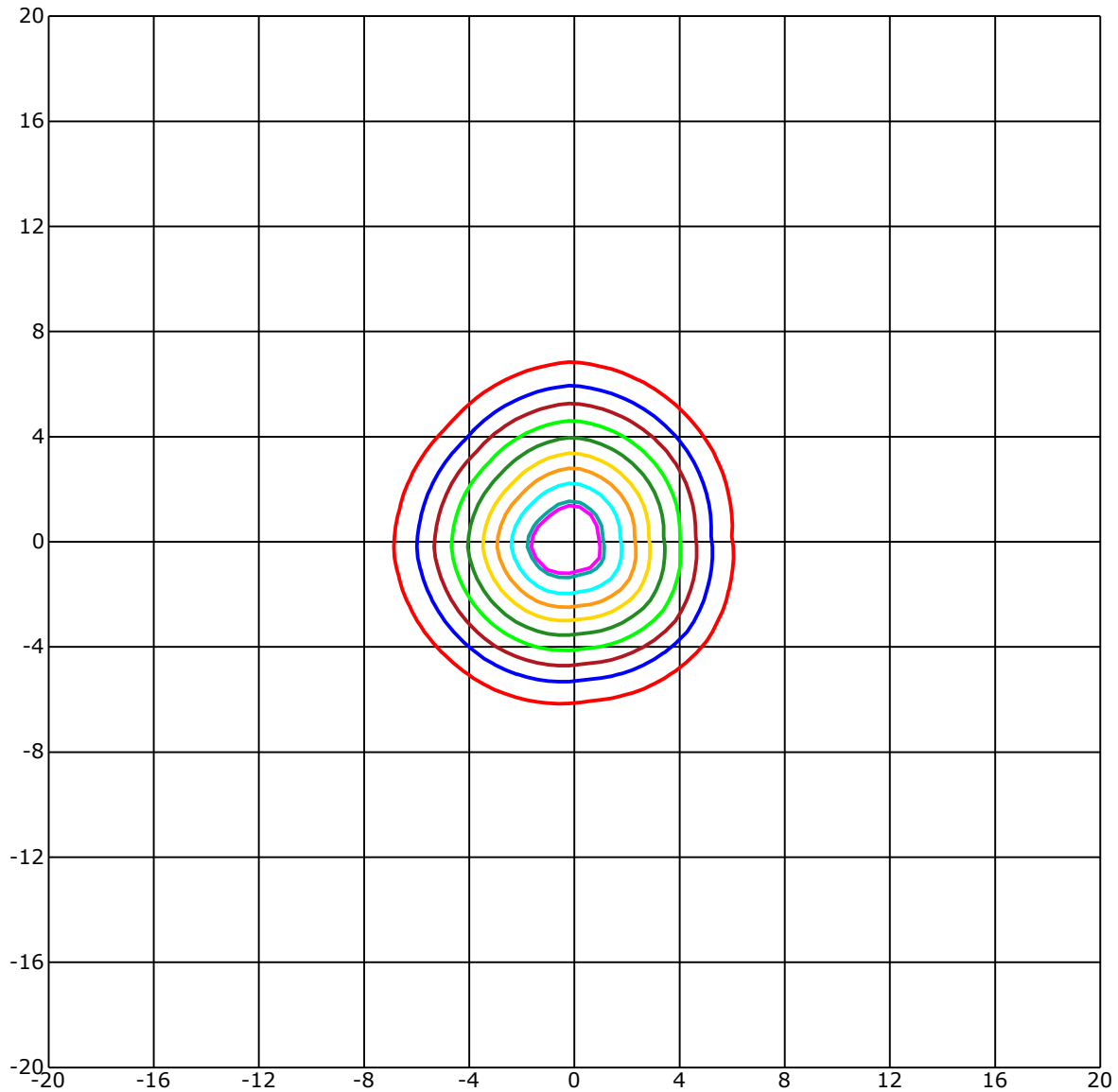
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ISOLX DIAGRAM



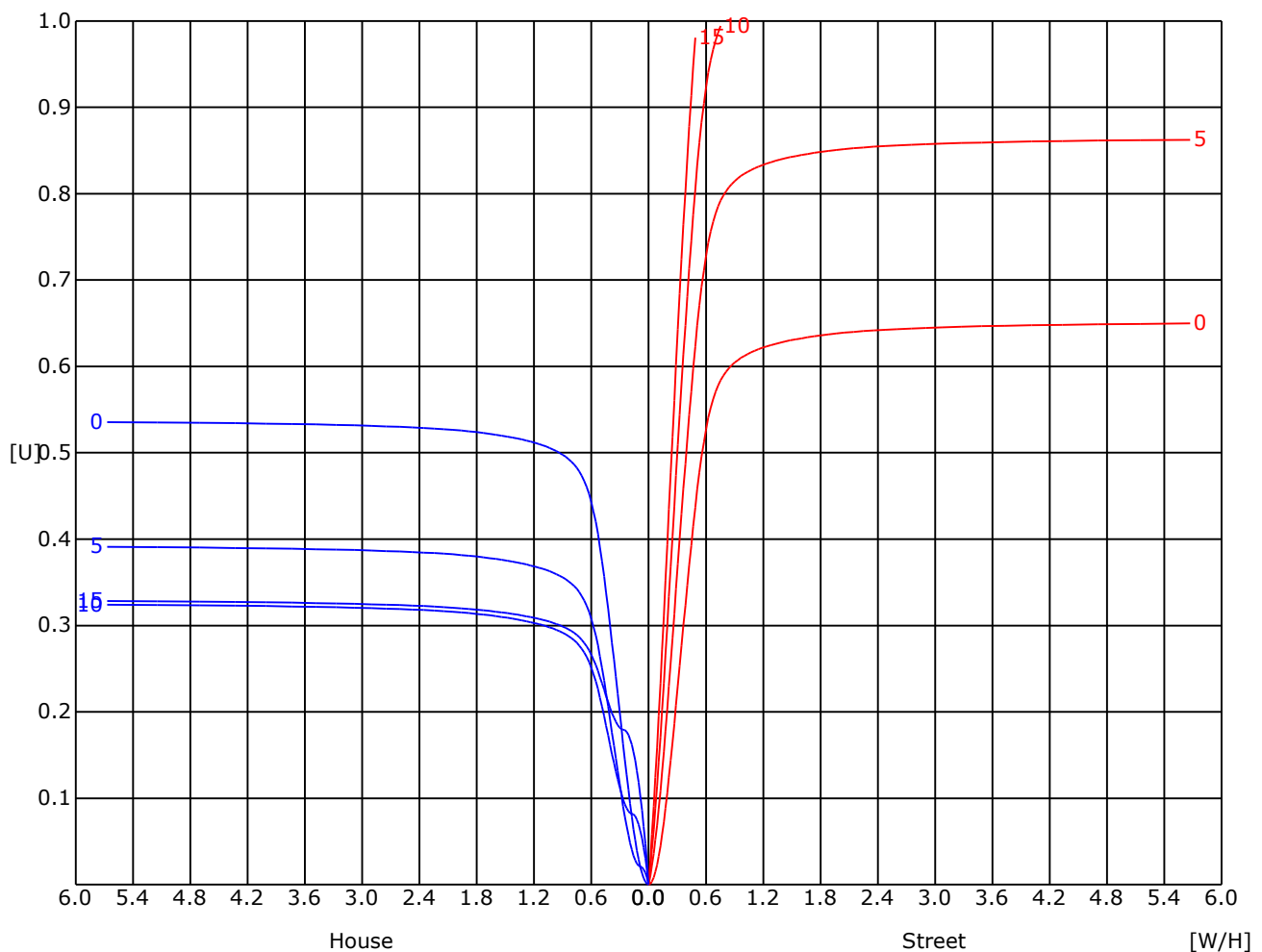
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Temperature: 25
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UTILIZATION FACTOR DIAGRAM (ROAD)



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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	12.42	12.47	12.62	12.66	12.90	12.69	12.74	12.89	12.93	13.17
3H	12.46	12.51	12.67	12.71	12.95	12.71	12.76	12.91	12.95	13.20
4H	12.46	12.52	12.67	12.71	12.96	12.70	12.76	12.91	12.95	13.20
6H	12.45	12.51	12.67	12.71	12.96	12.69	12.74	12.91	12.94	13.19
8H	12.44	12.50	12.66	12.70	12.95	12.68	12.73	12.90	12.94	13.19
12H	12.43	12.49	12.66	12.69	12.95	12.67	12.72	12.89	12.93	13.18
4H 2H	13.11	13.16	13.32	13.36	13.61	13.65	13.70	13.86	13.90	14.14
3H	13.27	13.32	13.49	13.53	13.78	13.78	13.84	14.00	14.04	14.30
4H	13.32	13.37	13.55	13.58	13.84	13.82	13.87	14.05	14.08	14.34
6H	13.34	13.39	13.58	13.61	13.88	13.82	13.87	14.06	14.09	14.36
8H	13.34	13.39	13.59	13.62	13.88	13.82	13.86	14.06	14.09	14.36
12H	13.33	13.38	13.58	13.61	13.88	13.80	13.85	14.05	14.08	14.35
8H 4H	13.37	13.43	13.59	13.63	13.88	14.15	14.21	14.37	14.41	14.66
6H	13.83	13.87	14.08	14.11	14.38	14.61	14.66	14.86	14.89	15.17
8H	13.85	13.89	14.11	14.14	14.42	14.62	14.66	14.88	14.91	15.18
12H	13.86	13.90	14.13	14.15	14.43	14.61	14.65	14.88	14.90	15.18
12H 4H	13.77	13.82	14.02	14.05	14.32	14.81	14.86	15.06	15.09	15.36
6H	13.87	13.92	14.13	14.16	14.44	14.92	14.97	15.18	15.21	15.49

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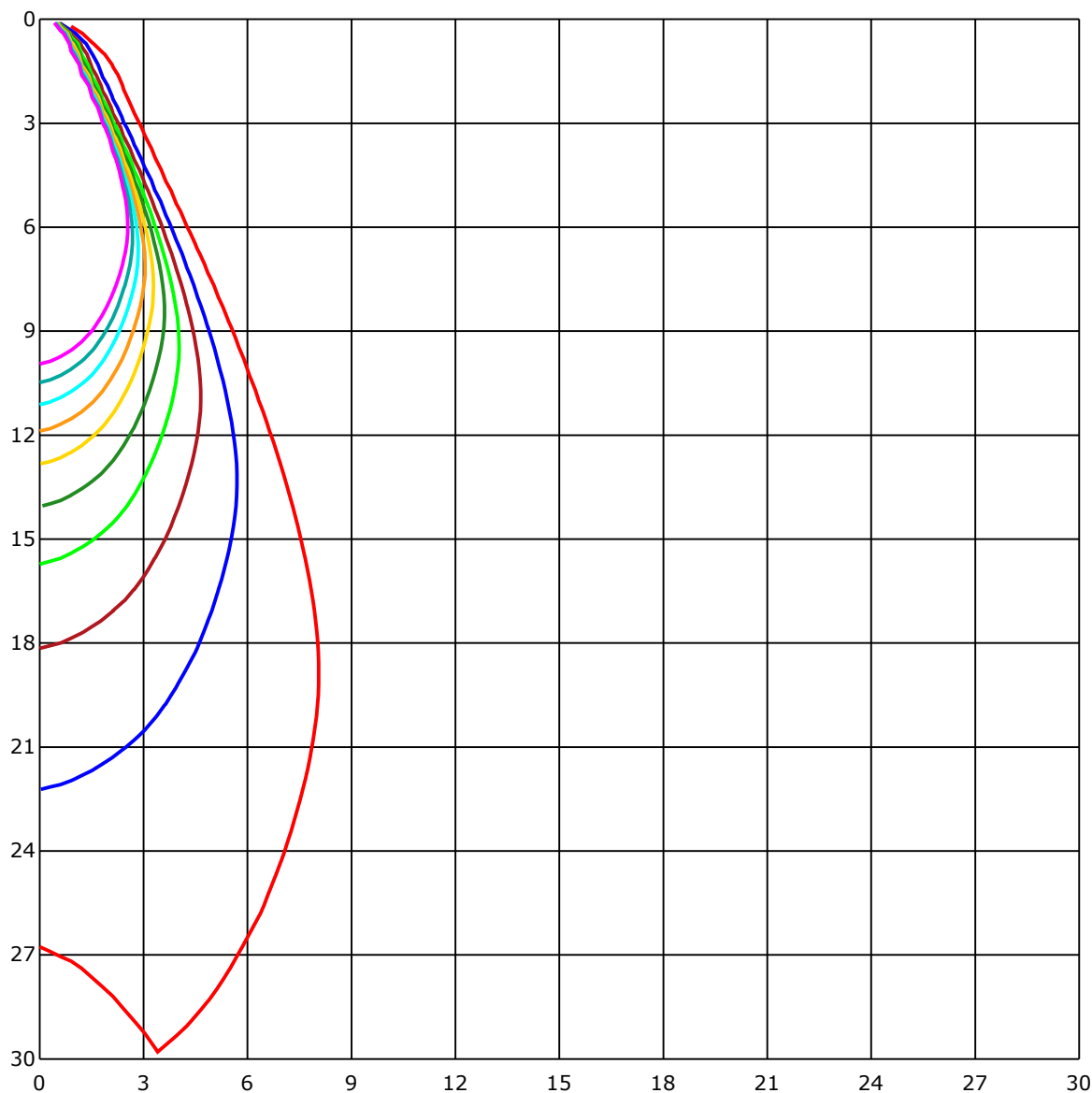
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Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks:

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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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C Interval: 45.0 Deg
Test Speed: High
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G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks:

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	2127.27	2154.82	2146.05	2144.25	2127.27	2154.82	2146.05	2144.25	2127.27	
G1	2109.0	2139.01	2149.67	2147.82	2143.13	2157.37	2137.2	2135.85	2109.0	
G2	2094.25	2125.46	2145.64	2145.54	2150.18	2154.59	2124.91	2123.33	2094.25	
G3	2064.43	2108.91	2140.91	2141.23	2154.68	2149.67	2112.39	2112.48	2064.43	
G4	2037.02	2089.66	2130.8	2126.81	2151.02	2139.42	2086.18	2093.19	2037.02	
G5	2001.96	2055.67	2118.28	2110.07	2150.14	2127.27	2060.4	2070.97	2001.96	
G6	1969.96	2025.75	2099.12	2089.48	2144.34	2107.28	2031.55	2044.68	1969.96	
G7	1927.9	1993.94	2075.19	2062.07	2133.21	2081.41	1997.6	2011.89	1927.9	
G8	1889.59	1962.41	2040.69	2028.58	2111.69	2057.52	1956.28	1974.18	1889.59	
G9	1840.67	1914.36	2005.16	1994.22	2085.58	2016.62	1911.3	1939.22	1840.67	
G10	1790.91	1869.47	1968.34	1954.38	2047.13	1974.28	1860.19	1888.57	1790.91	
G11	1733.49	1823.32	1927.44	1909.58	2006.37	1929.01	1808.44	1838.49	1733.49	
G12	1673.06	1772.03	1881.9	1860.19	1961.11	1878.23	1746.76	1785.29	1673.06	
G13	1614.21	1713.32	1834.78	1803.06	1908.28	1816.55	1687.21	1732.1	1614.21	
G14	1558.28	1659.11	1780.75	1744.11	1855.55	1755.61	1625.3	1672.32	1558.28	
G15	1490.71	1601.04	1726.54	1682.39	1796.33	1690.22	1559.72	1614.03	1490.71	
G16	1430.1	1545.07	1671.95	1619.92	1738.08	1624.79	1492.52	1549.89	1430.1	
G17	1367.86	1484.78	1617.27	1560.14	1674.64	1562.04	1425.74	1487.14	1367.86	
G18	1306.69	1424.49	1557.26	1498.04	1612.59	1499.94	1358.96	1424.49	1306.69	
G19	1246.36	1366.24	1498.27	1434.32	1549.43	1431.17	1298.95	1361.65	1246.36	
G20	1187.92	1304.51	1439.1	1369.9	1488.58	1370.88	1234.25	1300.39	1187.92	
G21	1125.08	1242.56	1381.27	1309.8	1421.06	1303.08	1167.52	1241.26	1125.08	
G22	1064.33	1180.23	1319.08	1247.24	1359.66	1236.48	1100.23	1177.07	1064.33	
G23	994.07	1117.94	1256.98	1186.58	1295.75	1170.95	1029.97	1114.51	994.07	
G24	919.22	1055.61	1192.28	1122.21	1234.25	1103.66	947.97	1046.2	919.22	
G25	834.45	987.44	1132.27	1055.94	1165.57	1034.33	863.34	971.67	834.45	
G26	742.53	910.18	1064.8	981.5	1099.25	954.05	774.06	889.77	742.53	
G27	648.29	825.03	994.35	901.37	1030.89	868.02	683.91	801.47	648.29	
G28	558.97	737.7	913.75	811.63	952.01	777.03	594.68	706.77	558.97	
G29	470.49	648.25	830.74	721.24	864.54	685.25	507.86	613.83	470.49	
G30	390.81	559.16	741.51	626.17	774.76	593.24	426.47	523.26	390.81	
G31	324.86	473.36	650.01	534.07	678.44	506.01	358.72	438.76	324.86	
G32	268.52	397.4	560.92	447.81	586.98	428.19	300.15	365.63	268.52	
G33	220.61	330.15	479.76	373.61	499.84	357.88	249.64	303.21	220.61	
G34	182.58	273.99	404.31	309.61	419.52	298.01	208.88	250.94	182.58	
G35	151.56	227.66	339.8	255.86	347.5	248.48	174.7	209.43	151.56	
G36	127.21	190.42	284.89	211.38	286.56	207.86	146.08	175.16	127.21	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	108.43	159.72	238.88	175.53	234.57	175.12	124.1	148.68	108.43	
G38	94.33	134.35	201.09	146.55	194.27	148.17	106.43	127.4	94.33	
G39	82.97	114.6	169.97	124.33	161.44	126.24	92.75	110.7	82.97	
G40	73.97	99.43	145.34	106.2	136.02	109.45	81.48	97.53	73.97	
G41	66.04	87.98	126.0	92.43	116.68	96.14	72.58	87.33	66.04	
G42	59.78	78.19	110.42	81.39	102.26	85.61	65.39	78.28	59.78	
G43	54.4	69.56	97.25	72.39	90.2	76.66	59.27	71.0	54.4	
G44	49.53	62.61	86.82	64.37	80.23	69.66	53.94	64.74	49.53	
G45	45.22	56.67	78.38	58.29	71.7	63.26	49.39	59.78	45.22	
G46	42.06	51.71	71.0	52.73	65.07	57.97	45.22	55.05	42.06	
G47	39.28	46.98	64.65	47.81	59.41	53.52	42.06	50.92	39.28	
G48	37.01	43.5	59.04	43.83	54.45	49.53	39.1	47.07	37.01	
G49	35.06	40.12	54.63	40.58	50.09	45.96	36.68	44.47	35.06	
G50	33.53	37.66	50.27	37.89	46.61	43.08	34.74	41.97	33.53	
G51	32.09	35.43	46.1	35.8	43.5	40.72	33.02	39.98	32.09	
G52	31.03	33.81	43.18	33.81	41.27	38.77	31.44	38.21	31.03	
G53	29.68	32.19	40.63	31.95	39.19	36.96	30.1	36.54	29.68	
G54	28.57	30.89	38.58	30.42	37.61	35.38	28.85	34.92	28.57	
G55	27.32	29.5	36.64	28.99	35.85	33.67	27.83	33.39	27.32	
G56	26.48	28.34	34.74	27.83	34.36	32.28	26.53	32.09	26.48	
G57	25.37	27.04	33.39	26.71	32.88	30.89	25.46	30.84	25.37	
G58	24.39	25.83	31.86	25.65	31.63	29.68	24.39	29.54	24.39	
G59	23.14	24.81	30.61	24.72	30.33	28.43	23.23	28.34	23.14	
G60	22.17	23.61	29.31	23.56	29.12	27.27	22.08	27.08	22.17	
G61	20.92	22.68	28.2	22.54	27.87	25.97	20.87	25.83	20.92	
G62	19.71	21.47	26.94	21.47	26.67	24.76	19.85	24.53	19.71	
G63	18.5	20.45	25.69	20.54	25.51	23.56	18.69	23.19	18.5	
G64	17.02	19.2	24.49	19.43	24.35	22.4	17.53	21.84	17.02	
G65	15.3	18.13	23.23	18.55	23.14	21.38	15.68	20.5	15.3	
G66	13.82	16.97	22.08	17.76	22.12	19.76	14.05	18.5	13.82	
G67	13.08	15.16	20.87	16.37	20.92	17.9	13.4	17.07	13.08	
G68	12.8	13.68	19.25	14.7	19.62	16.51	12.85	16.28	12.8	
G69	12.52	13.03	17.67	13.5	17.81	16.0	12.43	15.81	12.52	
G70	12.15	12.66	16.51	13.08	16.51	15.4	12.1	15.16	12.15	
G71	11.73	12.48	15.91	12.71	15.91	14.84	11.64	14.79	11.73	
G72	11.18	12.2	15.49	12.2	15.44	14.47	11.18	14.05	11.18	
G73	10.67	11.5	15.16	11.78	14.84	13.87	10.53	13.63	10.67	

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