

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P831598

Luminaire Tested: S123DIP-S775D1025U927-4F0-1E-UDD-G1

Issue Date: 05/03/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P831598  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2301-905-1, G3-1807-864-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 05/03/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S123DIP-S775D1025U927-4F0-1E-UDD-G1  
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 775 LUMENS PER FOOT, GRAZE OPTIC  
UPLIGHT 1025 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: -

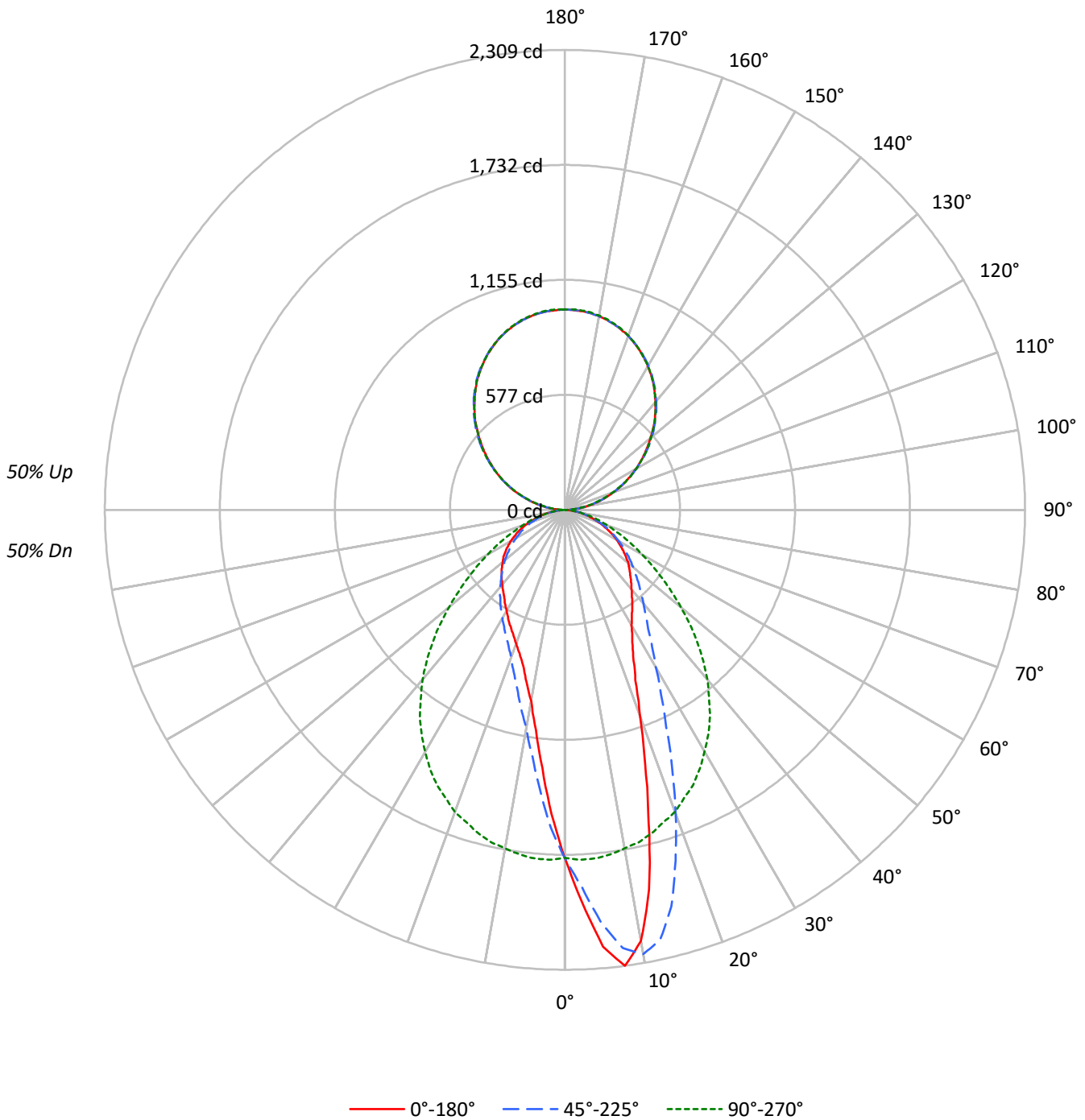
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5601.0 lumens  
Efficiency: N/A  
Efficacy: 108.1 lumens/watt  
Spacing Criteria (0/90/45): 0.65 / 1.19 / 0.89  
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')  
CIE Type: General Diffuse  
  
Input Watts (W): 51.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50				
1	98	94	90	87	91	87	84	81	74	72	70	62	60	59	51	49	49	43				
2	90	83	77	72	83	77	72	67	65	62	58	55	52	50	45	43	42	37				
3	83	73	66	61	76	68	62	57	58	54	50	49	46	43	41	38	36	32				
4	76	65	58	52	70	61	54	49	52	47	43	44	40	37	37	34	32	28				
5	70	59	51	45	64	55	48	43	47	42	38	40	36	33	33	31	28	25				
6	65	53	45	40	60	49	43	37	43	37	33	37	32	29	31	28	25	22				
7	60	48	40	35	55	45	38	33	39	34	30	34	29	26	28	25	23	20				
8	56	44	36	31	52	41	34	30	36	31	27	31	27	24	26	23	21	18				
9	52	40	33	28	48	38	31	27	33	28	24	29	25	22	24	21	19	17				
10	49	37	30	26	45	35	29	24	31	26	22	27	23	20	23	20	17	16				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°	135°	180°
0°	18813	18813	18813	18813	18813
5°	23793	22456	18982	15297	14056
10°	24024	24751	18855	12193	10656
15°	18094	22979	18727	10326	9011
20°	12607	18594	18488	9030	8184
25°	9613	14300	18081	8308	7677
30°	8316	11361	17429	7798	7269
35°	7716	9592	16679	7428	6980
40°	7305	8604	15625	7078	6884
45°	7062	7963	14285	6803	6839
50°	6941	7457	12698	6553	6804
55°	6683	7084	11142	6317	6835
60°	6443	6687	9604	6095	6723
65°	6052	6311	8283	5855	6589
70°	5589	5832	7046	5463	6203
75°	5061	5228	6039	5078	5669
80°	4172	4575	4779	4426	4779
85°	3310	3705	3507	3754	3804

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 80°  
 Vertical Angle: 45°  
 Luminance: 16309 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	165.2	3.0
10°-20°	411.1	7.3
20°-30°	486.7	8.7
30°-40°	489.4	8.7
40°-50°	449.0	8.0
50°-60°	370.6	6.6
60°-70°	262.2	4.7
70°-80°	139.9	2.5
80°-90°	37.6	0.7
90°-100°	64.8	1.2
100°-110°	196.1	3.5
110°-120°	333.9	6.0
120°-130°	439.2	7.8
130°-140°	493.7	8.8
140°-150°	485.4	8.7
150°-160°	408.7	7.3
160°-170°	272.1	4.9
170°-180°	95.3	1.7
0°-30°	1063.1	19.0
0°-40°	1552.5	27.7
0°-60°	2372.1	42.4
0°-90°	2811.8	50.2
90°-120°	594.8	10.6
90°-150°	2013.2	35.9
90°-180°	2789.0	49.8
0°-180°	5601.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1748	1748	1748	1748	1748	
5°	2202	2078	1757	1416	1301	210
15°	1624	2062	1680	927	809	449
25°	809	1204	1522	700	646	382
35°	587	730	1269	565	531	369
45°	464	523	938	447	449	359
55°	356	378	594	337	364	319
65°	238	248	325	230	259	236
75°	122	126	145	122	136	128
85°	27	30	28	30	31	30
90°	24	19	1	19	24	13
95°	62	58	47	58	62	62
105°	188	187	178	187	188	199
115°	337	337	336	337	337	334
125°	486	493	492	493	486	435
135°	637	642	638	642	637	490
145°	774	778	774	778	774	484
155°	885	887	886	887	885	408
165°	962	963	966	963	962	272
175°	1000	1001	1004	1001	1000	95
180°	1007	1007	1007	1007	1007	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1747.8	1747.8	1747.8	1747.8	1747.8	1747.8	1747.8	1747.8	1747.8	1747.8	1747.8
2.5°	1970.1	1968.0	1966.0	1955.9	1945.7	1940.9	1936.0	1921.4	1906.8	1890.6	1874.4
5°	2202.0	2207.7	2213.4	2206.9	2200.4	2180.5	2160.7	2134.3	2107.9	2078.3	2048.7
7.5°	2309.1	2312.3	2315.6	2311.5	2307.5	2302.2	2296.9	2273.4	2249.9	2219.5	2189.0
10°	2198.0	2205.3	2212.6	2228.4	2244.2	2262.0	2279.9	2276.6	2273.4	2264.5	2255.6
12.5°	1953.8	1962.8	1971.7	2003.3	2034.9	2075.5	2116.1	2150.9	2185.8	2210.1	2234.5
15°	1623.7	1648.5	1673.2	1702.0	1730.8	1790.4	1850.0	1923.4	1996.8	2062.1	2127.4
17.5°	1337.4	1346.8	1356.1	1386.9	1417.7	1492.8	1567.8	1652.5	1737.3	1845.6	1953.8
20°	1100.6	1109.1	1117.6	1158.2	1198.7	1257.5	1316.3	1411.6	1506.9	1623.3	1739.7
22.5°	924.6	938.0	951.4	974.1	996.8	1053.2	1109.5	1194.3	1279.0	1407.6	1536.1
25°	809.4	819.2	828.9	842.7	856.5	901.5	946.5	1016.3	1086.0	1204.0	1322.0
27.5°	730.8	734.8	738.9	752.7	766.5	795.6	824.8	884.9	944.9	1045.0	1145.2
30°	669.1	672.0	674.8	687.0	699.1	719.0	738.9	782.3	825.7	914.1	1002.5
32.5°	626.1	628.2	630.2	639.5	648.8	663.0	677.2	708.9	740.5	813.5	886.5
35°	587.2	588.4	589.6	596.5	603.4	614.0	624.5	648.4	672.4	730.0	787.5
37.5°	553.1	554.8	556.4	560.4	564.5	573.8	583.2	602.2	621.3	665.5	709.7
40°	519.9	522.7	525.6	528.4	531.2	538.9	546.7	561.3	575.9	612.3	648.8
42.5°	491.5	494.3	497.2	498.4	499.6	504.1	508.5	521.9	535.3	562.5	589.6
45°	463.9	465.1	466.4	467.6	468.8	472.4	476.1	487.9	499.6	523.1	546.7
47.5°	438.8	438.8	438.8	439.6	440.4	443.6	446.9	455.4	463.9	482.2	500.4
50°	414.5	414.5	414.5	413.2	412.0	414.0	416.1	422.6	429.1	445.3	461.5
52.5°	385.3	385.3	385.3	385.7	386.1	386.1	386.1	391.7	397.4	412.0	426.6
55°	356.1	357.7	359.3	358.1	356.9	357.7	358.5	362.1	365.8	377.5	389.3
57.5°	326.9	327.7	328.5	328.1	327.7	328.1	328.5	331.7	335.0	343.9	352.8
60°	299.3	299.3	299.3	298.5	297.7	298.5	299.3	300.9	302.5	310.6	318.7
62.5°	268.5	268.9	269.3	269.7	270.1	269.3	268.5	270.5	272.5	278.6	284.7
65°	237.6	238.0	238.5	239.7	240.9	240.1	239.3	241.3	243.3	247.8	252.2
67.5°	210.1	209.3	208.4	208.8	209.3	210.5	211.7	212.1	212.5	217.4	222.2
70°	177.6	178.4	179.2	178.8	178.4	178.8	179.2	180.5	181.7	185.3	189.0
72.5°	148.4	148.8	149.2	149.2	149.2	150.0	150.9	152.1	153.3	155.3	157.3
75°	121.7	121.7	121.7	122.5	123.3	123.7	124.1	124.1	124.1	125.7	127.3
77.5°	92.5	94.5	96.5	96.1	95.7	96.5	97.3	98.5	99.8	100.6	101.4
80°	67.3	67.3	67.3	67.7	68.1	69.3	70.6	71.4	72.2	73.8	75.4
82.5°	43.0	43.4	43.8	45.0	46.2	47.0	47.9	49.1	50.3	50.3	50.3
85°	26.8	26.0	25.1	26.0	26.8	27.6	28.4	28.8	29.2	30.0	30.8
87.5°	13.0	13.0	13.0	13.0	13.0	13.4	13.8	13.8	13.8	13.8	13.8
90°	23.7	23.4	23.0	22.7	22.3	21.8	21.1	20.4	19.7	19.0	16.7
92.5°	34.0	34.4	34.7	35.1	35.4	35.3	34.8	34.3	33.7	33.2	32.2
95°	61.7	61.7	61.7	61.7	61.7	61.3	60.6	59.9	59.2	58.5	57.1
97.5°	88.6	88.7	88.9	89.1	89.3	88.9	88.0	87.2	86.3	85.4	84.3
100°	120.2	119.8	119.5	119.1	118.8	118.4	117.8	117.3	116.8	116.2	115.4
102.5°	152.6	152.8	153.0	153.1	153.3	153.1	152.6	152.1	151.6	151.0	149.8
105°	188.2	187.8	187.5	187.1	186.8	186.6	186.6	186.6	186.6	186.6	185.0
107.5°	224.6	224.8	224.9	225.1	225.3	225.1	224.6	224.0	223.5	223.0	222.3
110°	261.7	262.1	262.4	262.8	263.1	263.0	262.3	261.6	260.9	260.2	259.8



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	301.3	301.3	301.3	301.3	301.3	300.8	300.0	299.1	298.2	297.3	297.3
115°	336.9	337.0	337.2	337.4	337.6	337.6	337.4	337.2	337.0	336.9	337.2
117.5°	373.2	373.8	374.3	374.8	375.3	375.6	375.6	375.6	375.6	375.6	376.0
120°	412.0	412.3	412.7	413.0	413.4	413.7	413.8	414.0	414.2	414.4	415.2
122.5°	449.2	449.7	450.2	450.7	451.3	451.8	452.3	452.8	453.4	453.9	454.2
125°	486.3	487.0	487.7	488.4	489.1	489.8	490.5	491.2	491.9	492.6	493.0
127.5°	523.5	524.2	524.9	525.6	526.3	527.2	528.2	529.3	530.3	531.4	531.7
130°	559.9	561.1	562.3	563.5	564.8	565.7	566.4	567.2	567.9	568.6	569.1
132.5°	597.8	598.7	599.6	600.5	601.3	602.2	603.1	604.0	604.8	605.7	606.1
135°	637.4	637.7	638.1	638.4	638.8	639.3	640.0	640.7	641.4	642.1	642.3
137.5°	672.1	672.7	673.2	673.7	674.3	675.0	675.8	676.7	677.6	678.5	677.9
140°	706.2	707.4	708.6	709.8	711.1	711.8	711.9	712.1	712.3	712.5	712.3
142.5°	740.9	741.8	742.7	743.6	744.5	745.0	745.2	745.3	745.5	745.7	745.3
145°	774.2	774.9	775.6	776.3	777.0	777.4	777.6	777.8	777.9	778.1	777.6
147.5°	804.2	805.3	806.3	807.4	808.4	808.9	808.9	808.9	808.9	808.9	808.4
150°	832.7	833.7	834.8	835.8	836.9	837.4	837.4	837.4	837.4	837.4	837.1
152.5°	860.3	861.2	862.1	863.0	863.9	864.1	863.8	863.4	863.1	862.7	862.5
155°	884.9	886.1	887.3	888.6	889.8	890.0	889.3	888.6	887.9	887.2	887.1
157.5°	907.8	908.8	909.9	911.0	912.0	912.2	911.5	910.8	910.1	909.4	909.2
160°	929.9	930.6	931.3	932.0	932.7	932.7	931.8	930.9	930.0	929.1	929.1
162.5°	946.5	947.8	949.0	950.2	951.5	951.6	950.8	949.9	949.0	948.1	947.9
165°	962.4	963.6	964.8	966.0	967.3	967.4	966.3	965.3	964.2	963.1	963.1
167.5°	976.6	977.6	978.7	979.8	980.8	980.8	979.8	978.7	977.6	976.6	976.4
170°	986.9	988.1	989.3	990.6	991.8	991.8	990.6	989.3	988.1	986.9	986.9
172.5°	994.8	996.0	997.2	998.5	999.7	999.8	998.7	997.7	996.6	995.6	995.6
175°	1000.3	1001.5	1002.8	1004.0	1005.2	1005.3	1004.3	1003.2	1002.2	1001.1	1001.1
177.5°	1003.5	1004.7	1005.9	1007.2	1008.4	1008.5	1007.4	1006.4	1005.3	1004.3	1004.3
180°	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1747.8	1747.8	1747.8	1747.8	1747.8	1747.8	1747.8	1747.8	1747.8	1747.8	1747.8
2.5°	1869.5	1864.6	1846.8	1828.9	1808.7	1788.4	1773.4	1758.4	1736.1	1713.8	1695.5
5°	2026.0	2003.3	1965.6	1927.9	1876.8	1825.7	1791.2	1756.8	1710.5	1664.3	1627.4
7.5°	2150.1	2111.2	2058.5	2005.7	1938.8	1871.9	1808.7	1745.4	1674.8	1604.3	1546.7
10°	2229.2	2202.8	2142.0	2081.2	1991.6	1901.9	1813.5	1725.1	1634.3	1543.4	1467.2
12.5°	2236.9	2239.3	2183.4	2127.4	2026.0	1924.6	1817.2	1709.7	1595.4	1481.0	1392.2
15°	2169.2	2210.9	2180.1	2149.3	2047.1	1944.9	1812.7	1680.5	1548.7	1416.9	1314.3
17.5°	2043.5	2133.1	2137.5	2142.0	2039.8	1937.6	1791.2	1644.8	1495.6	1346.4	1238.5
20°	1871.9	2004.1	2049.5	2095.0	2011.8	1928.7	1771.4	1614.0	1446.9	1279.9	1166.7
22.5°	1696.7	1857.3	1940.5	2023.6	1962.0	1900.3	1732.8	1565.3	1388.9	1212.5	1097.8
25°	1497.2	1672.4	1800.1	1927.9	1890.2	1852.5	1687.4	1522.4	1334.6	1146.8	1029.6
27.5°	1323.2	1501.3	1655.4	1809.5	1801.4	1793.3	1629.4	1465.6	1273.4	1081.1	968.0
30°	1168.3	1334.2	1506.5	1678.9	1698.8	1718.6	1560.5	1402.3	1209.7	1017.1	908.0
32.5°	1031.3	1176.0	1361.0	1545.9	1584.8	1623.7	1481.0	1338.2	1147.6	957.0	852.0
35°	918.9	1050.3	1235.2	1420.2	1468.8	1517.5	1393.4	1269.3	1083.6	897.8	797.7
37.5°	819.6	929.5	1109.9	1290.4	1350.0	1409.6	1298.5	1187.4	1013.4	839.4	747.4
40°	737.3	825.7	991.5	1157.4	1226.3	1295.3	1203.6	1112.0	946.9	781.9	697.1
42.5°	668.3	747.0	897.4	1047.9	1114.0	1180.1	1102.6	1025.2	878.4	731.6	654.1
45°	609.5	672.4	809.0	945.7	1008.6	1071.4	1004.9	938.4	809.0	679.7	607.5
47.5°	554.4	608.3	725.1	841.9	897.8	953.8	901.9	850.0	740.5	631.0	565.7
50°	504.9	548.3	650.5	752.7	801.3	850.0	804.2	758.3	668.3	578.3	521.5
52.5°	461.9	497.2	582.7	668.3	710.1	751.9	712.5	673.2	601.8	530.4	481.0
55°	419.3	449.3	523.5	597.8	626.1	654.5	624.1	593.7	536.1	478.5	436.8
57.5°	379.6	406.3	467.2	528.0	549.9	571.8	544.2	516.6	473.3	429.9	395.0
60°	340.6	362.5	413.2	463.9	477.3	490.7	468.4	446.1	415.7	385.3	354.0
62.5°	304.6	324.4	362.1	399.9	408.8	417.7	400.7	383.6	360.5	337.4	313.1
65°	267.2	282.2	313.1	343.9	349.6	355.2	340.2	325.2	307.8	290.4	272.5
67.5°	232.8	243.3	268.5	293.6	294.0	294.4	282.2	270.1	260.3	250.6	236.4
70°	199.1	209.3	225.9	242.5	242.9	243.3	233.6	223.9	216.6	209.3	198.7
72.5°	164.6	171.9	184.5	197.1	196.3	195.5	189.4	183.3	177.6	171.9	164.2
75°	133.4	139.5	148.0	156.5	154.1	151.7	148.4	145.2	140.3	135.4	130.6
77.5°	105.0	108.7	113.5	118.4	116.8	115.2	112.3	109.5	105.8	102.2	100.2
80°	77.1	78.7	81.9	85.2	84.4	83.5	80.3	77.1	76.2	75.4	72.6
82.5°	52.3	54.3	55.2	56.0	55.6	55.2	52.7	50.3	49.5	48.7	48.3
85°	31.2	31.6	32.0	32.4	31.2	30.0	29.2	28.4	28.4	28.4	28.0
87.5°	14.2	14.6	14.6	14.6	14.2	13.8	13.0	12.2	12.6	13.0	13.0
90°	14.4	12.1	9.8	7.8	6.1	4.3	2.5	0.8	2.5	4.3	6.1
92.5°	31.1	30.0	29.0	27.9	26.9	25.8	24.8	23.7	24.8	25.8	26.9
95°	55.7	54.3	52.9	51.6	50.3	49.1	47.9	46.7	47.9	49.1	50.3
97.5°	83.3	82.2	81.2	80.2	79.3	78.5	77.6	76.7	77.6	78.5	79.3
100°	114.5	113.6	112.7	111.8	110.7	109.7	108.6	107.5	108.6	109.7	110.7
102.5°	148.6	147.3	146.1	145.2	144.7	144.2	143.7	143.1	143.7	144.2	144.7
105°	183.5	181.9	180.3	179.3	179.0	178.6	178.3	177.9	178.3	178.6	179.0
107.5°	221.6	220.9	220.2	219.7	219.6	219.4	219.2	219.0	219.2	219.4	219.6
110°	259.5	259.1	258.8	258.4	258.1	257.7	257.3	257.0	257.3	257.7	258.1





TEST NUMBER: P831598

CATALOG NUMBER: S123DIP-S775D1025U927-4F0-1E-UDD-G1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	297.3	297.3	297.3	297.2	297.1	296.9	296.7	296.5	296.7	296.9	297.1
115°	337.6	337.9	338.3	338.2	337.7	337.1	336.6	336.1	336.6	337.1	337.7
117.5°	376.3	376.7	377.0	377.1	376.9	376.8	376.6	376.4	376.6	376.8	376.9
120°	416.1	417.0	417.9	417.8	416.7	415.7	414.6	413.6	414.6	415.7	416.7
122.5°	454.6	455.0	455.3	455.1	454.4	453.7	453.0	452.3	453.0	453.7	454.4
125°	493.3	493.7	494.1	494.0	493.4	492.9	492.4	491.9	492.4	492.9	493.4
127.5°	532.1	532.4	532.8	532.4	531.4	530.3	529.3	528.2	529.3	530.3	531.4
130°	569.6	570.1	570.7	570.2	568.8	567.4	566.0	564.6	566.0	567.4	568.8
132.5°	606.4	606.8	607.1	606.6	605.2	603.8	602.4	601.0	602.4	603.8	605.2
135°	642.5	642.6	642.8	642.4	641.3	640.3	639.2	638.1	639.2	640.3	641.3
137.5°	677.4	676.9	676.4	675.7	674.8	673.9	673.0	672.1	673.0	673.9	674.8
140°	712.1	711.9	711.8	711.2	710.4	709.5	708.6	707.7	708.6	709.5	710.4
142.5°	745.0	744.6	744.3	743.7	742.8	741.9	741.0	740.2	741.0	741.9	742.8
145°	777.1	776.5	776.0	775.6	775.2	774.9	774.5	774.2	774.5	774.9	775.2
147.5°	807.9	807.4	806.8	806.2	805.5	804.8	804.1	803.4	804.1	804.8	805.5
150°	836.7	836.4	836.0	835.7	835.3	835.0	834.6	834.3	834.6	835.0	835.3
152.5°	862.4	862.2	862.0	861.7	861.1	860.6	860.1	859.6	860.1	860.6	861.1
155°	886.9	886.7	886.5	886.4	886.4	886.4	886.4	886.4	886.4	886.4	886.4
157.5°	909.0	908.8	908.7	908.7	908.8	909.0	909.2	909.4	909.2	909.0	908.8
160°	929.1	929.1	929.1	929.3	929.7	930.0	930.4	930.7	930.4	930.0	929.7
162.5°	947.8	947.6	947.4	947.6	948.1	948.7	949.2	949.7	949.2	948.7	948.1
165°	963.1	963.1	963.1	963.4	963.9	964.5	965.0	965.5	965.0	964.5	963.9
167.5°	976.2	976.1	975.9	976.2	976.9	977.6	978.3	979.0	978.3	977.6	976.9
170°	986.9	986.9	986.9	987.2	987.9	988.6	989.3	990.0	989.3	988.6	987.9
172.5°	995.6	995.6	995.6	995.9	996.6	997.3	998.0	998.7	998.0	997.3	996.6
175°	1001.1	1001.1	1001.1	1001.5	1002.2	1002.9	1003.6	1004.3	1003.6	1002.9	1002.2
177.5°	1004.3	1004.3	1004.3	1004.6	1005.3	1006.0	1006.7	1007.4	1006.7	1006.0	1005.3
180°	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6



TEST NUMBER: P831598

CATALOG NUMBER: S123DIP-S775D1025U927-4F0-1E-UDD-G1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1747.8	1747.8	1747.8	1747.8	1747.8	1747.8	1747.8	1747.8	1747.8	1747.8	1747.8
2.5°	1677.3	1661.5	1645.6	1633.5	1621.3	1600.6	1579.9	1575.1	1570.2	1563.3	1556.4
5°	1590.5	1551.6	1512.6	1477.7	1442.9	1415.7	1388.5	1370.7	1352.8	1339.9	1326.9
7.5°	1489.1	1430.7	1372.3	1330.9	1289.6	1250.2	1210.9	1198.3	1185.8	1168.7	1151.7
10°	1391.0	1326.5	1262.0	1208.1	1154.1	1115.6	1077.1	1061.7	1046.3	1024.8	1003.3
12.5°	1303.4	1232.8	1162.2	1107.9	1053.6	1016.3	978.9	956.6	934.3	922.2	910.0
15°	1211.7	1136.3	1060.9	1010.6	960.3	926.6	893.0	873.5	854.0	842.3	830.5
17.5°	1130.6	1056.0	981.4	933.1	884.9	854.0	823.2	806.2	789.2	780.2	771.3
20°	1053.6	980.6	907.6	860.5	813.5	788.3	763.2	752.3	741.3	734.0	726.7
22.5°	983.0	911.2	839.4	799.3	759.2	738.9	718.6	710.9	703.2	697.1	691.0
25°	912.4	848.4	784.3	750.2	716.2	699.5	682.9	675.2	667.5	661.4	655.3
27.5°	854.9	793.6	732.4	703.2	674.0	661.0	648.0	642.0	635.9	630.2	624.5
30°	798.9	744.1	689.4	664.3	639.1	627.4	615.6	609.5	603.4	598.2	592.9
32.5°	747.0	699.9	652.9	629.8	606.7	596.9	587.2	579.9	572.6	568.6	564.5
35°	697.5	655.3	613.2	594.1	575.0	565.3	555.6	549.5	543.4	540.2	536.9
37.5°	655.3	617.6	579.9	561.7	543.4	534.1	524.8	519.5	514.2	513.0	511.8
40°	612.3	579.9	547.5	529.6	511.8	503.7	495.6	492.3	489.1	488.3	487.4
42.5°	576.7	545.0	513.4	497.2	481.0	474.1	467.2	465.5	463.9	465.1	466.4
45°	535.3	508.9	482.6	467.6	452.6	446.9	441.2	440.0	438.8	441.2	443.6
47.5°	500.4	476.1	451.8	437.6	423.4	419.3	415.3	414.9	414.5	417.7	420.9
50°	464.7	441.2	417.7	406.3	395.0	391.3	387.7	388.9	390.1	395.4	400.7
52.5°	431.5	409.6	387.7	377.1	366.6	364.2	361.7	364.6	367.4	373.1	378.8
55°	395.0	375.1	355.2	347.1	339.0	336.6	334.2	339.8	345.5	350.8	356.1
57.5°	360.1	342.7	325.2	317.9	310.6	310.2	309.8	315.1	320.4	326.0	331.7
60°	322.8	308.2	293.6	287.9	282.2	283.1	283.9	290.0	296.0	300.5	305.0
62.5°	288.7	276.6	264.4	259.1	253.9	255.9	257.9	264.0	270.1	275.4	280.6
65°	254.7	244.5	234.4	230.7	227.1	229.9	232.8	238.0	243.3	247.0	250.6
67.5°	222.2	213.7	205.2	202.4	199.5	202.4	205.2	210.5	215.7	219.4	223.0
70°	188.2	181.3	174.4	172.3	170.3	173.6	176.8	181.3	185.7	189.4	193.0
72.5°	156.5	151.3	146.0	145.6	145.2	148.0	150.9	155.3	159.8	162.2	164.6
75°	125.7	122.9	120.0	119.6	119.2	122.1	124.9	127.3	129.8	131.8	133.8
77.5°	98.1	95.7	93.3	93.7	94.1	96.1	98.1	100.6	103.0	104.2	105.4
80°	69.8	68.9	68.1	68.9	69.8	71.4	73.0	74.6	76.2	77.1	77.9
82.5°	47.9	47.0	46.2	47.4	48.7	49.9	51.1	52.3	53.5	53.9	54.3
85°	27.6	28.8	30.0	30.0	30.0	30.4	30.8	31.2	31.6	31.2	30.8
87.5°	13.0	13.4	13.8	13.8	13.8	14.2	14.6	14.6	14.6	14.2	13.8
90°	7.8	9.8	12.1	14.4	16.7	19.0	19.7	20.4	21.1	21.8	22.3
92.5°	27.9	29.0	30.0	31.1	32.2	33.2	33.7	34.3	34.8	35.3	35.4
95°	51.6	52.9	54.3	55.7	57.1	58.5	59.2	59.9	60.6	61.3	61.7
97.5°	80.2	81.2	82.2	83.3	84.3	85.4	86.3	87.2	88.0	88.9	89.3
100°	111.8	112.7	113.6	114.5	115.4	116.2	116.8	117.3	117.8	118.4	118.8
102.5°	145.2	146.1	147.3	148.6	149.8	151.0	151.6	152.1	152.6	153.1	153.3
105°	179.3	180.3	181.9	183.5	185.0	186.6	186.6	186.6	186.6	186.6	186.8
107.5°	219.7	220.2	220.9	221.6	222.3	223.0	223.5	224.0	224.6	225.1	225.3
110°	258.4	258.8	259.1	259.5	259.8	260.2	260.9	261.6	262.3	263.0	263.1



TEST NUMBER: P831598

CATALOG NUMBER: S123DIP-S775D1025U927-4F0-1E-UDD-G1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	297.2	297.3	297.3	297.3	297.3	297.3	298.2	299.1	300.0	300.8	301.3
115°	338.2	338.3	337.9	337.6	337.2	336.9	337.0	337.2	337.4	337.6	337.6
117.5°	377.1	377.0	376.7	376.3	376.0	375.6	375.6	375.6	375.6	375.6	375.3
120°	417.8	417.9	417.0	416.1	415.2	414.4	414.2	414.0	413.8	413.7	413.4
122.5°	455.1	455.3	455.0	454.6	454.2	453.9	453.4	452.8	452.3	451.8	451.3
125°	494.0	494.1	493.7	493.3	493.0	492.6	491.9	491.2	490.5	489.8	489.1
127.5°	532.4	532.8	532.4	532.1	531.7	531.4	530.3	529.3	528.2	527.2	526.3
130°	570.2	570.7	570.1	569.6	569.1	568.6	567.9	567.2	566.4	565.7	564.8
132.5°	606.6	607.1	606.8	606.4	606.1	605.7	604.8	604.0	603.1	602.2	601.3
135°	642.4	642.8	642.6	642.5	642.3	642.1	641.4	640.7	640.0	639.3	638.8
137.5°	675.7	676.4	676.9	677.4	677.9	678.5	677.6	676.7	675.8	675.0	674.3
140°	711.2	711.8	711.9	712.1	712.3	712.5	712.3	712.1	711.9	711.8	711.1
142.5°	743.7	744.3	744.6	745.0	745.3	745.7	745.5	745.3	745.2	745.0	744.5
145°	775.6	776.0	776.5	777.1	777.6	778.1	777.9	777.8	777.6	777.4	777.0
147.5°	806.2	806.8	807.4	807.9	808.4	808.9	808.9	808.9	808.9	808.9	808.4
150°	835.7	836.0	836.4	836.7	837.1	837.4	837.4	837.4	837.4	837.4	836.9
152.5°	861.7	862.0	862.2	862.4	862.5	862.7	863.1	863.4	863.8	864.1	863.9
155°	886.4	886.5	886.7	886.9	887.1	887.2	887.9	888.6	889.3	890.0	889.8
157.5°	908.7	908.7	908.8	909.0	909.2	909.4	910.1	910.8	911.5	912.2	912.0
160°	929.3	929.1	929.1	929.1	929.1	929.1	930.0	930.9	931.8	932.7	932.7
162.5°	947.6	947.4	947.6	947.8	947.9	948.1	949.0	949.9	950.8	951.6	951.5
165°	963.4	963.1	963.1	963.1	963.1	963.1	964.2	965.3	966.3	967.4	967.3
167.5°	976.2	975.9	976.1	976.2	976.4	976.6	977.6	978.7	979.8	980.8	980.8
170°	987.2	986.9	986.9	986.9	986.9	986.9	988.1	989.3	990.6	991.8	991.8
172.5°	995.9	995.6	995.6	995.6	995.6	995.6	996.6	997.7	998.7	999.8	999.7
175°	1001.5	1001.1	1001.1	1001.1	1001.1	1001.1	1002.2	1003.2	1004.3	1005.3	1005.2
177.5°	1004.6	1004.3	1004.3	1004.3	1004.3	1004.3	1005.3	1006.4	1007.4	1008.5	1008.4
180°	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6



TEST NUMBER: P831598

CATALOG NUMBER: S123DIP-S775D1025U927-4F0-1E-UDD-G1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	1747.8	1747.8	1747.8	1747.8
2.5°	1553.6	1550.7	1539.4	1528.0
5°	1317.2	1307.4	1304.2	1300.9
7.5°	1150.9	1150.1	1133.0	1116.0
10°	1004.5	1005.7	990.3	974.9
12.5°	899.9	889.7	888.5	887.3
15°	821.2	811.9	810.2	808.6
17.5°	765.6	760.0	758.3	756.7
20°	723.5	720.2	717.4	714.5
22.5°	687.0	682.9	680.5	678.0
25°	651.7	648.0	647.2	646.4
27.5°	620.1	615.6	615.6	615.6
30°	590.0	587.2	586.0	584.8
32.5°	562.1	559.6	559.6	559.6
35°	535.7	534.5	532.9	531.2
37.5°	511.8	511.8	511.0	510.2
40°	488.7	489.9	489.9	489.9
42.5°	467.6	468.8	468.8	468.8
45°	445.7	447.7	448.5	449.3
47.5°	424.2	427.4	428.2	429.1
50°	403.1	405.5	405.9	406.3
52.5°	381.6	384.4	386.5	388.5
55°	358.9	361.7	362.9	364.2
57.5°	334.6	337.4	337.8	338.2
60°	307.8	310.6	311.4	312.3
62.5°	282.2	283.9	284.7	285.5
65°	253.1	255.5	257.1	258.7
67.5°	225.1	227.1	227.1	227.1
70°	193.8	194.7	195.9	197.1
72.5°	165.1	165.5	165.5	165.5
75°	134.6	135.4	135.9	136.3
77.5°	105.8	106.2	106.2	106.2
80°	77.5	77.1	77.1	77.1
82.5°	53.1	51.9	51.9	51.9
85°	30.4	30.0	30.4	30.8
87.5°	13.8	13.8	13.8	13.8
90°	22.7	23.0	23.4	23.7
92.5°	35.1	34.7	34.4	34.0
95°	61.7	61.7	61.7	61.7
97.5°	89.1	88.9	88.7	88.6
100°	119.1	119.5	119.8	120.2
102.5°	153.1	153.0	152.8	152.6
105°	187.1	187.5	187.8	188.2
107.5°	225.1	224.9	224.8	224.6
110°	262.8	262.4	262.1	261.7



TEST NUMBER: P831598

CATALOG NUMBER: S123DIP-S775D1025U927-4F0-1E-UDD-G1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
112.5°	301.3	301.3	301.3	301.3
115°	337.4	337.2	337.0	336.9
117.5°	374.8	374.3	373.8	373.2
120°	413.0	412.7	412.3	412.0
122.5°	450.7	450.2	449.7	449.2
125°	488.4	487.7	487.0	486.3
127.5°	525.6	524.9	524.2	523.5
130°	563.5	562.3	561.1	559.9
132.5°	600.5	599.6	598.7	597.8
135°	638.4	638.1	637.7	637.4
137.5°	673.7	673.2	672.7	672.1
140°	709.8	708.6	707.4	706.2
142.5°	743.6	742.7	741.8	740.9
145°	776.3	775.6	774.9	774.2
147.5°	807.4	806.3	805.3	804.2
150°	835.8	834.8	833.7	832.7
152.5°	863.0	862.1	861.2	860.3
155°	888.6	887.3	886.1	884.9
157.5°	911.0	909.9	908.8	907.8
160°	932.0	931.3	930.6	929.9
162.5°	950.2	949.0	947.8	946.5
165°	966.0	964.8	963.6	962.4
167.5°	979.8	978.7	977.6	976.6
170°	990.6	989.3	988.1	986.9
172.5°	998.5	997.2	996.0	994.8
175°	1004.0	1002.8	1001.5	1000.3
177.5°	1007.2	1005.9	1004.7	1003.5
180°	1006.6	1006.6	1006.6	1006.6



TEST NUMBER: P831598

CATALOG NUMBER: S123DIP-S775D1025U927-4F0-1E-UDD-G1

**CIE UGR TABLE:**

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	13.78	14.61	14.75	15.58	16.85	16.02	16.85	16.98	17.82	19.09
	3H	15.43	16.17	16.40	17.15	18.44	17.44	18.18	18.41	19.16	20.46
	4H	16.00	16.70	16.99	17.69	18.99	17.89	18.59	18.88	19.58	20.88
	6H	16.37	17.02	17.37	18.01	19.32	18.16	18.81	19.16	19.80	21.11
	8H	16.47	17.08	17.47	18.09	19.40	18.23	18.84	19.23	19.85	21.16
	12H	16.51	17.09	17.52	18.10	19.43	18.24	18.83	19.25	19.83	21.16
4H	2H	14.35	15.05	15.35	16.04	17.34	16.18	16.88	17.17	17.86	19.17
	3H	16.18	16.76	17.18	17.78	19.09	17.79	18.38	18.80	19.39	20.71
	4H	16.88	17.41	17.89	18.42	19.76	18.38	18.91	19.39	19.92	21.26
	6H	17.35	17.81	18.37	18.84	20.17	18.78	19.24	19.80	20.27	21.61
	8H	17.49	17.91	18.51	18.94	20.29	18.89	19.32	19.91	20.34	21.69
	12H	17.55	17.94	18.59	18.98	20.33	18.93	19.32	19.97	20.36	21.71
8H	4H	17.14	17.57	18.16	18.59	19.94	18.48	18.91	19.50	19.93	21.28
	6H	17.73	18.08	18.77	19.15	20.49	18.98	19.33	20.03	20.40	21.75
	8H	17.93	18.24	18.99	19.30	20.66	19.16	19.47	20.21	20.52	21.89
	12H	18.06	18.33	19.11	19.38	20.79	19.26	19.53	20.32	20.58	21.99
12H	4H	17.14	17.52	18.18	18.56	19.92	18.45	18.84	19.49	19.88	21.23
	6H	17.78	18.09	18.83	19.14	20.51	19.00	19.31	20.05	20.36	21.72
	8H	18.01	18.28	19.07	19.33	20.74	19.19	19.47	20.25	20.51	21.92