

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: P831762

Luminaire Tested: S123DP-S775D935-4F0-1E-UDD-G

Issue Date: 05/03/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P831762  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2301-905-1, -)  
Test Lab: INNOVATION CENTER  
Issue Date: 05/03/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S123DP-S775D935-4F0-1E-UDD-G  
Description: DEFINE 3 DIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 775 LUMENS PER FOOT, GRAZE OPTIC

Light Source: -  
Ballast/Driver: -

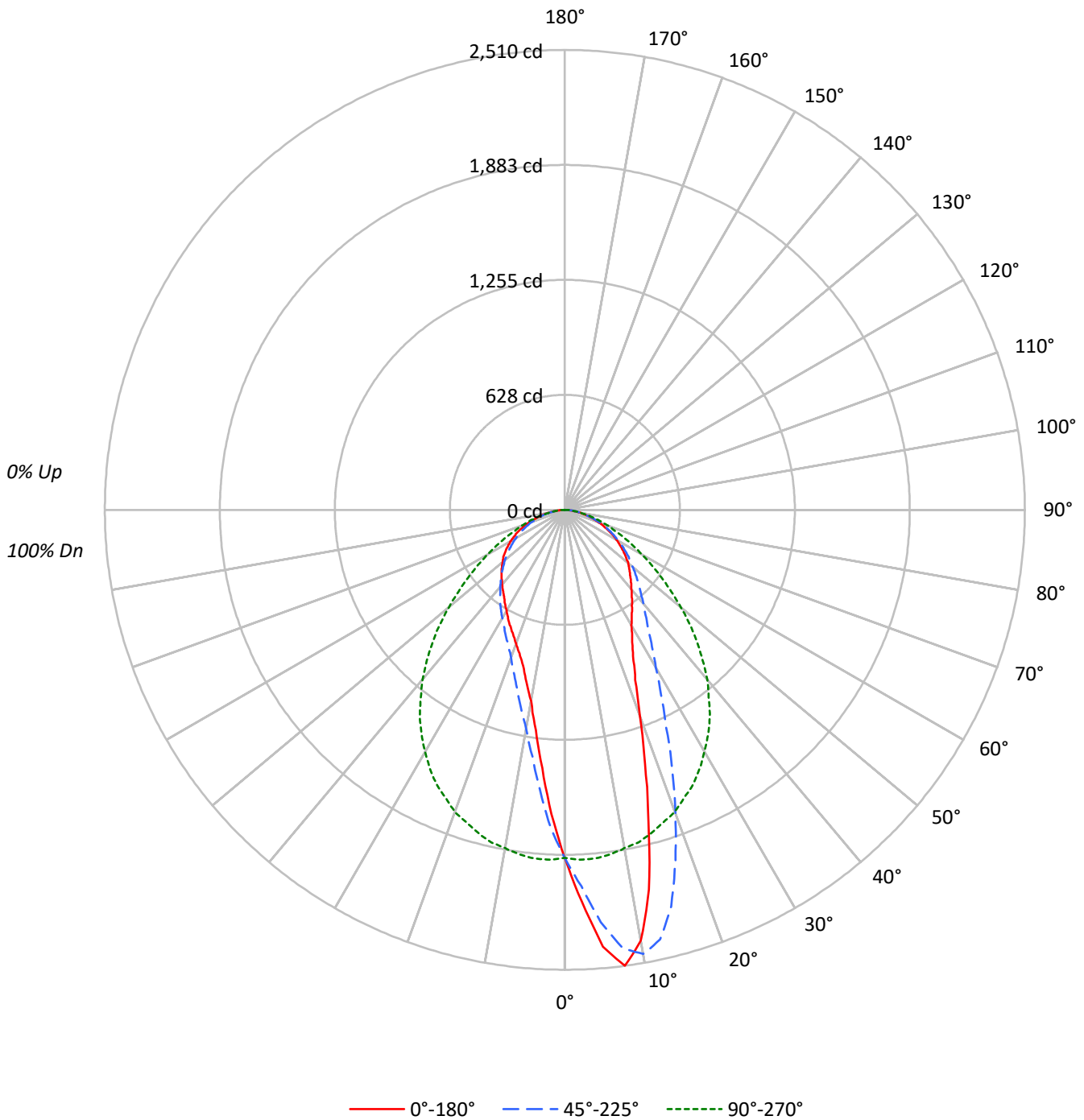
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3053.8 lumens  
Efficiency: N/A  
Efficacy: 117.9 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: Direct

Input Watts (W): 25.9  
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86				86
2	101	94	88	82	99	92	86	81	88	84	80	85	81	78	82	79	76	74				74
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64				64
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	58	56				56
5	80	68	60	54	78	67	59	54	65	58	53	63	57	52	61	56	52	50				50
6	74	62	54	48	73	61	53	48	60	53	47	58	52	47	56	51	47	45				45
7	70	57	49	43	68	56	49	43	55	48	43	53	47	43	52	47	42	40				40
8	65	53	45	39	64	52	44	39	51	44	39	49	43	39	48	43	39	37				37
9	61	49	41	36	60	48	41	36	47	40	36	46	40	36	45	40	35	34				34
10	58	45	38	33	57	45	38	33	44	37	33	43	37	33	42	37	33	31				31

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

	0°	45°	90°	135°	180°
0°	20448	20448	20448	20448	20448
5°	25860	24407	20631	16626	15278
10°	26111	26901	20494	13253	11581
15°	19666	24976	20354	11223	9794
20°	13702	20211	20094	9814	8896
25°	10449	15542	19651	9030	8345
30°	9040	12348	18943	8475	7900
35°	8386	10426	18128	8073	7587
40°	7940	9351	16982	7692	7481
45°	7675	8655	15525	7394	7435
50°	7544	8105	13802	7122	7395
55°	7263	7700	12110	6865	7428
60°	7003	7268	10437	6622	7307
65°	6579	6859	9004	6365	7162
70°	6077	6338	7657	5936	6741
75°	5498	5681	6563	5519	6159
80°	4537	4971	5188	4810	5188
85°	3594	4026	3816	4088	4137

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 80°  
 Vertical Angle: 45°  
 Luminance: 17727 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	179.6	5.9
10°-20°	446.8	14.6
20°-30°	529.0	17.3
30°-40°	531.9	17.4
40°-50°	488.0	16.0
50°-60°	402.8	13.2
60°-70°	284.9	9.3
70°-80°	152.1	5.0
80°-90°	38.6	1.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1155.4	37.8
0°-40°	1687.3	55.3
0°-60°	2578.1	84.4
0°-90°	3053.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3053.8	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1900	1900	1900	1900	1900	
5°	2393	2259	1909	1539	1414	228
15°	1765	2241	1826	1007	879	488
25°	880	1309	1655	760	703	415
35°	638	793	1380	614	577	401
45°	504	569	1020	486	488	390
55°	387	410	645	366	396	346
65°	258	269	354	250	281	257
75°	132	137	158	133	148	139
85°	29	33	31	33	34	34
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1899.7	1899.7	1899.7	1899.7	1899.7	1899.7	1899.7	1899.7	1899.7	1899.7	1899.7
2.5°	2141.2	2139.0	2136.8	2125.8	2114.8	2109.5	2104.2	2088.3	2072.4	2054.8	2037.2
5°	2393.3	2399.5	2405.7	2398.6	2391.6	2370.0	2348.4	2319.7	2291.1	2258.9	2226.7
7.5°	2509.7	2513.2	2516.7	2512.3	2507.9	2502.2	2496.5	2470.9	2445.3	2412.3	2379.2
10°	2388.9	2396.8	2404.8	2422.0	2439.2	2458.5	2477.9	2474.4	2470.9	2461.2	2451.5
12.5°	2123.6	2133.3	2143.0	2177.3	2211.7	2255.8	2299.9	2337.8	2375.7	2402.1	2428.6
15°	1764.8	1791.7	1818.6	1849.9	1881.2	1945.9	2010.7	2090.5	2170.3	2241.3	2312.2
17.5°	1453.6	1463.8	1473.9	1507.4	1540.9	1622.4	1704.0	1796.1	1888.2	2005.9	2123.6
20°	1196.2	1205.5	1214.7	1258.8	1302.9	1366.8	1430.7	1534.3	1637.9	1764.4	1890.9
22.5°	1004.9	1019.5	1034.0	1058.7	1083.4	1144.6	1205.9	1298.0	1390.1	1529.9	1669.6
25°	879.8	890.3	900.9	915.9	930.9	979.8	1028.7	1104.5	1180.3	1308.6	1436.9
27.5°	794.2	798.7	803.1	818.0	833.0	864.8	896.5	961.7	1027.0	1135.8	1244.7
30°	727.3	730.3	733.4	746.6	759.9	781.5	803.1	850.2	897.4	993.5	1089.6
32.5°	680.5	682.7	684.9	695.1	705.2	720.6	736.1	770.4	804.8	884.2	963.5
35°	638.2	639.5	640.9	648.4	655.8	667.3	678.8	704.8	730.8	793.4	856.0
37.5°	601.2	603.0	604.7	609.1	613.5	623.7	633.8	654.5	675.2	723.3	771.3
40°	565.1	568.1	571.2	574.3	577.4	585.8	594.1	610.0	625.9	665.5	705.2
42.5°	534.2	537.3	540.4	541.7	543.0	547.9	552.7	567.3	581.8	611.3	640.9
45°	504.2	505.5	506.9	508.2	509.5	513.5	517.4	530.2	543.0	568.6	594.1
47.5°	476.9	476.9	476.9	477.8	478.7	482.2	485.7	495.0	504.2	524.1	543.9
50°	450.5	450.5	450.5	449.1	447.8	450.0	452.2	459.3	466.3	484.0	501.6
52.5°	418.7	418.7	418.7	419.2	419.6	419.6	419.6	425.8	431.9	447.8	463.7
55°	387.0	388.7	390.5	389.2	387.9	388.7	389.6	393.6	397.6	410.3	423.1
57.5°	355.3	356.1	357.0	356.6	356.1	356.6	357.0	360.5	364.1	373.8	383.5
60°	325.3	325.3	325.3	324.4	323.5	324.4	325.3	327.0	328.8	337.6	346.4
62.5°	291.8	292.2	292.7	293.1	293.5	292.7	291.8	294.0	296.2	302.8	309.4
65°	258.3	258.7	259.2	260.5	261.8	260.9	260.0	262.3	264.5	269.3	274.2
67.5°	228.3	227.4	226.5	227.0	227.4	228.8	230.1	230.5	231.0	236.2	241.5
70°	193.1	193.9	194.8	194.4	193.9	194.4	194.8	196.1	197.5	201.4	205.4
72.5°	161.3	161.8	162.2	162.2	162.2	163.1	164.0	165.3	166.6	168.8	171.0
75°	132.2	132.2	132.2	133.1	134.0	134.4	134.9	134.9	134.9	136.6	138.4
77.5°	100.5	102.7	104.9	104.5	104.0	104.9	105.8	107.1	108.4	109.3	110.2
80°	73.2	73.2	73.2	73.6	74.0	75.4	76.7	77.6	78.5	80.2	82.0
82.5°	46.7	47.2	47.6	48.9	50.2	51.1	52.0	53.3	54.7	54.7	54.7
85°	29.1	28.2	27.3	28.2	29.1	30.0	30.9	31.3	31.7	32.6	33.5
87.5°	14.1	14.1	14.1	14.1	14.1	14.5	15.0	15.0	15.0	15.0	15.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1899.7	1899.7	1899.7	1899.7	1899.7	1899.7	1899.7	1899.7	1899.7	1899.7	1899.7
2.5°	2031.9	2026.6	2007.2	1987.8	1965.8	1943.7	1927.4	1911.1	1886.9	1862.6	1842.8
5°	2202.0	2177.3	2136.4	2095.4	2039.8	1984.3	1946.8	1909.4	1859.1	1808.9	1768.8
7.5°	2336.9	2294.6	2237.3	2180.0	2107.3	2034.5	1965.8	1897.0	1820.3	1743.6	1681.0
10°	2422.8	2394.2	2328.1	2262.0	2164.6	2067.2	1971.1	1875.0	1776.3	1677.5	1594.7
12.5°	2431.2	2433.9	2373.0	2312.2	2202.0	2091.8	1975.0	1858.2	1733.9	1609.6	1513.1
15°	2357.6	2403.0	2369.5	2336.0	2224.9	2113.9	1970.2	1826.5	1683.3	1540.0	1428.5
17.5°	2221.0	2318.4	2323.2	2328.1	2217.0	2105.9	1946.8	1787.7	1625.5	1463.3	1346.1
20°	2034.5	2178.2	2227.6	2277.0	2186.6	2096.2	1925.2	1754.2	1572.6	1391.0	1268.1
22.5°	1844.1	2018.7	2109.0	2199.4	2132.4	2065.4	1883.4	1701.3	1509.6	1317.9	1193.1
25°	1627.3	1817.7	1956.5	2095.4	2054.4	2013.4	1834.0	1654.6	1450.5	1246.5	1119.1
27.5°	1438.2	1631.7	1799.2	1966.7	1957.8	1949.0	1771.0	1592.9	1384.0	1175.1	1052.1
30°	1269.8	1450.1	1637.4	1824.7	1846.3	1867.9	1696.0	1524.1	1314.8	1105.4	986.9
32.5°	1120.8	1278.2	1479.2	1680.2	1722.5	1764.8	1609.6	1454.5	1247.3	1040.2	926.0
35°	998.8	1141.6	1342.5	1543.5	1596.4	1649.3	1514.4	1379.6	1177.7	975.8	867.0
37.5°	890.8	1010.2	1206.4	1402.5	1467.3	1532.1	1411.3	1290.5	1101.5	912.4	812.3
40°	801.3	897.4	1077.7	1257.9	1332.9	1407.8	1308.2	1208.6	1029.2	849.8	757.7
42.5°	726.4	811.9	975.4	1138.9	1210.8	1282.6	1198.4	1114.2	954.7	795.1	710.9
45°	662.5	730.8	879.3	1027.8	1096.2	1164.5	1092.2	1019.9	879.3	738.7	660.3
47.5°	602.5	661.1	788.1	915.0	975.8	1036.7	980.2	923.8	804.8	685.8	614.9
50°	548.7	595.9	707.0	818.0	870.9	923.8	874.0	824.2	726.4	628.5	566.8
52.5°	502.0	540.4	633.4	726.4	771.8	817.2	774.4	731.7	654.1	576.5	522.7
55°	455.7	488.4	569.0	649.7	680.5	711.4	678.3	645.3	582.7	520.1	474.7
57.5°	412.5	441.6	507.8	573.9	597.7	621.5	591.5	561.5	514.4	467.2	429.3
60°	370.2	394.0	449.1	504.2	518.8	533.3	509.1	484.8	451.8	418.7	384.8
62.5°	331.0	352.6	393.6	434.6	444.3	454.0	435.5	417.0	391.8	366.7	340.3
65°	290.5	306.8	340.3	373.8	379.9	386.1	369.8	353.5	334.5	315.6	296.2
67.5°	253.0	264.5	291.8	319.1	319.5	320.0	306.8	293.5	283.0	272.4	257.0
70°	216.4	227.4	245.5	263.6	264.0	264.5	253.9	243.3	235.4	227.4	216.0
72.5°	178.9	186.9	200.5	214.2	213.3	212.4	205.8	199.2	193.1	186.9	178.5
75°	145.0	151.6	160.9	170.1	167.5	164.8	161.3	157.8	152.5	147.2	141.9
77.5°	114.2	118.1	123.4	128.7	126.9	125.2	122.1	119.0	115.0	111.1	108.9
80°	83.7	85.5	89.0	92.6	91.7	90.8	87.3	83.7	82.9	82.0	78.9
82.5°	56.9	59.1	59.9	60.8	60.4	59.9	57.3	54.7	53.8	52.9	52.5
85°	33.9	34.4	34.8	35.3	33.9	32.6	31.7	30.9	30.9	30.9	30.4
87.5°	15.4	15.9	15.9	15.9	15.4	15.0	14.1	13.2	13.7	14.1	14.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1899.7	1899.7	1899.7	1899.7	1899.7	1899.7	1899.7	1899.7	1899.7	1899.7	1899.7
2.5°	1823.0	1805.8	1788.6	1775.4	1762.1	1739.7	1717.2	1711.9	1706.6	1699.1	1691.6
5°	1728.7	1686.3	1644.0	1606.1	1568.2	1538.7	1509.2	1489.8	1470.4	1456.3	1442.2
7.5°	1618.5	1555.0	1491.5	1446.6	1401.6	1358.9	1316.1	1302.4	1288.8	1270.3	1251.8
10°	1511.8	1441.7	1371.6	1313.0	1254.4	1212.5	1170.7	1153.9	1137.2	1113.8	1090.4
12.5°	1416.6	1339.9	1263.2	1204.1	1145.1	1104.5	1064.0	1039.7	1015.5	1002.3	989.1
15°	1317.0	1235.0	1153.0	1098.4	1043.7	1007.1	970.5	949.4	928.2	915.5	902.7
17.5°	1228.8	1147.7	1066.6	1014.2	961.7	928.2	894.7	876.2	857.7	848.0	838.3
20°	1145.1	1065.8	986.4	935.3	884.2	856.8	829.5	817.6	805.7	797.8	789.8
22.5°	1068.4	990.4	912.4	868.7	825.1	803.1	781.0	772.6	764.3	757.7	751.1
25°	991.7	922.1	852.4	815.4	778.4	760.3	742.2	733.9	725.5	718.9	712.3
27.5°	929.1	862.6	796.0	764.3	732.5	718.4	704.3	697.7	691.1	684.9	678.8
30°	868.3	808.8	749.3	722.0	694.6	681.9	669.1	662.5	655.8	650.1	644.4
32.5°	811.9	760.7	709.6	684.5	659.4	648.8	638.2	630.3	622.3	617.9	613.5
35°	758.1	712.3	666.4	645.7	625.0	614.4	603.8	597.2	590.6	587.1	583.6
37.5°	712.3	671.3	630.3	610.4	590.6	580.5	570.3	564.6	558.9	557.6	556.2
40°	665.5	630.3	595.0	575.6	556.2	547.4	538.6	535.1	531.6	530.7	529.8
42.5°	626.8	592.4	558.0	540.4	522.7	515.2	507.8	506.0	504.2	505.5	506.9
45°	581.8	553.2	524.5	508.2	491.9	485.7	479.5	478.2	476.9	479.5	482.2
47.5°	543.9	517.4	491.0	475.6	460.2	455.7	451.3	450.9	450.5	454.0	457.5
50°	505.1	479.5	454.0	441.6	429.3	425.3	421.4	422.7	424.0	429.7	435.5
52.5°	469.0	445.2	421.4	409.9	398.4	395.8	393.2	396.2	399.3	405.5	411.7
55°	429.3	407.7	386.1	377.3	368.5	365.8	363.2	369.4	375.5	381.3	387.0
57.5°	391.4	372.4	353.5	345.6	337.6	337.2	336.7	342.5	348.2	354.4	360.5
60°	350.8	335.0	319.1	312.9	306.8	307.6	308.5	315.1	321.8	326.6	331.4
62.5°	313.8	300.6	287.4	281.6	275.9	278.1	280.3	286.9	293.5	299.3	305.0
65°	276.8	265.8	254.8	250.8	246.8	249.9	253.0	258.7	264.5	268.4	272.4
67.5°	241.5	232.3	223.0	219.9	216.9	219.9	223.0	228.8	234.5	238.4	242.4
70°	204.5	197.0	189.5	187.3	185.1	188.6	192.2	197.0	201.9	205.8	209.8
72.5°	170.1	164.4	158.7	158.2	157.8	160.9	164.0	168.8	173.7	176.3	178.9
75°	136.6	133.5	130.5	130.0	129.6	132.7	135.8	138.4	141.0	143.2	145.5
77.5°	106.7	104.0	101.4	101.8	102.3	104.5	106.7	109.3	112.0	113.3	114.6
80°	75.8	74.9	74.0	74.9	75.8	77.6	79.3	81.1	82.9	83.7	84.6
82.5°	52.0	51.1	50.2	51.6	52.9	54.2	55.5	56.9	58.2	58.6	59.1
85°	30.0	31.3	32.6	32.6	32.6	33.1	33.5	33.9	34.4	33.9	33.5
87.5°	14.1	14.5	15.0	15.0	15.0	15.4	15.9	15.9	15.9	15.4	15.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





TEST NUMBER: P831762

CATALOG NUMBER: S123DP-S775D935-4F0-1E-UDD-G

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	1899.7	1899.7	1899.7	1899.7
2.5°	1688.5	1685.5	1673.1	1660.8
5°	1431.6	1421.0	1417.5	1414.0
7.5°	1250.9	1250.0	1231.5	1213.0
10°	1091.8	1093.1	1076.3	1059.6
12.5°	978.0	967.0	965.7	964.4
15°	892.5	882.4	880.6	878.9
17.5°	832.2	826.0	824.2	822.5
20°	786.3	782.8	779.7	776.6
22.5°	746.6	742.2	739.6	736.9
25°	708.3	704.3	703.4	702.6
27.5°	673.9	669.1	669.1	669.1
30°	641.3	638.2	636.9	635.6
32.5°	610.9	608.2	608.2	608.2
35°	582.2	580.9	579.2	577.4
37.5°	556.2	556.2	555.4	554.5
40°	531.1	532.4	532.4	532.4
42.5°	508.2	509.5	509.5	509.5
45°	484.4	486.6	487.5	488.4
47.5°	461.0	464.6	465.4	466.3
50°	438.1	440.8	441.2	441.6
52.5°	414.8	417.8	420.0	422.2
55°	390.1	393.2	394.5	395.8
57.5°	363.6	366.7	367.2	367.6
60°	334.5	337.6	338.5	339.4
62.5°	306.8	308.5	309.4	310.3
65°	275.0	277.7	279.4	281.2
67.5°	244.6	246.8	246.8	246.8
70°	210.7	211.6	212.9	214.2
72.5°	179.4	179.8	179.8	179.8
75°	146.3	147.2	147.7	148.1
77.5°	115.0	115.5	115.5	115.5
80°	84.2	83.7	83.7	83.7
82.5°	57.7	56.4	56.4	56.4
85°	33.1	32.6	33.1	33.5
87.5°	15.0	15.0	15.0	15.0
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P831762

CATALOG NUMBER: S123DP-S775D935-4F0-1E-UDD-G

**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	17.97	19.47	18.33	19.79	20.10	20.20	21.71	20.57	22.02	22.34
	3H	19.66	21.01	20.03	21.34	21.70	21.67	23.03	22.05	23.35	23.72
	4H	20.26	21.53	20.66	21.88	22.26	22.15	23.42	22.55	23.77	24.15
	6H	20.66	21.84	21.07	22.20	22.60	22.45	23.63	22.87	24.00	24.39
	8H	20.78	21.90	21.20	22.28	22.69	22.53	23.65	22.96	24.04	24.44
	12H	20.84	21.91	21.27	22.29	22.72	22.57	23.64	23.00	24.03	24.46
4H	2H	18.61	19.88	19.01	20.23	20.61	20.44	21.71	20.84	22.06	22.44
	3H	20.49	21.55	20.90	21.95	22.35	22.11	23.17	22.52	23.57	23.97
	4H	21.21	22.17	21.65	22.58	23.02	22.72	23.67	23.15	24.08	24.52
	6H	21.72	22.55	22.18	22.99	23.45	23.15	23.98	23.61	24.43	24.88
	8H	21.87	22.65	22.34	23.09	23.56	23.28	24.05	23.74	24.50	24.96
	12H	21.97	22.66	22.45	23.14	23.61	23.35	24.04	23.83	24.52	24.99
8H	4H	21.53	22.30	21.99	22.74	23.21	22.87	23.64	23.33	24.09	24.55
	6H	22.14	22.78	22.63	23.27	23.75	23.39	24.03	23.89	24.52	25.00
	8H	22.35	22.92	22.86	23.43	23.92	23.57	24.15	24.09	24.66	25.15
	12H	22.50	23.01	23.01	23.50	24.06	23.71	24.21	24.21	24.70	25.27
12H	4H	21.56	22.25	22.04	22.73	23.20	22.87	23.56	23.35	24.04	24.51
	6H	22.19	22.76	22.70	23.27	23.76	23.41	23.98	23.92	24.49	24.98
	8H	22.45	22.96	22.96	23.45	24.02	23.64	24.14	24.15	24.64	25.20