

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P243679

Luminaire Tested: S125DRP-H1270D840-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P243679
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-61)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DRP-H1270D840-X4F0-XX-UDD-A-W
Description: DEFINE 5 DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

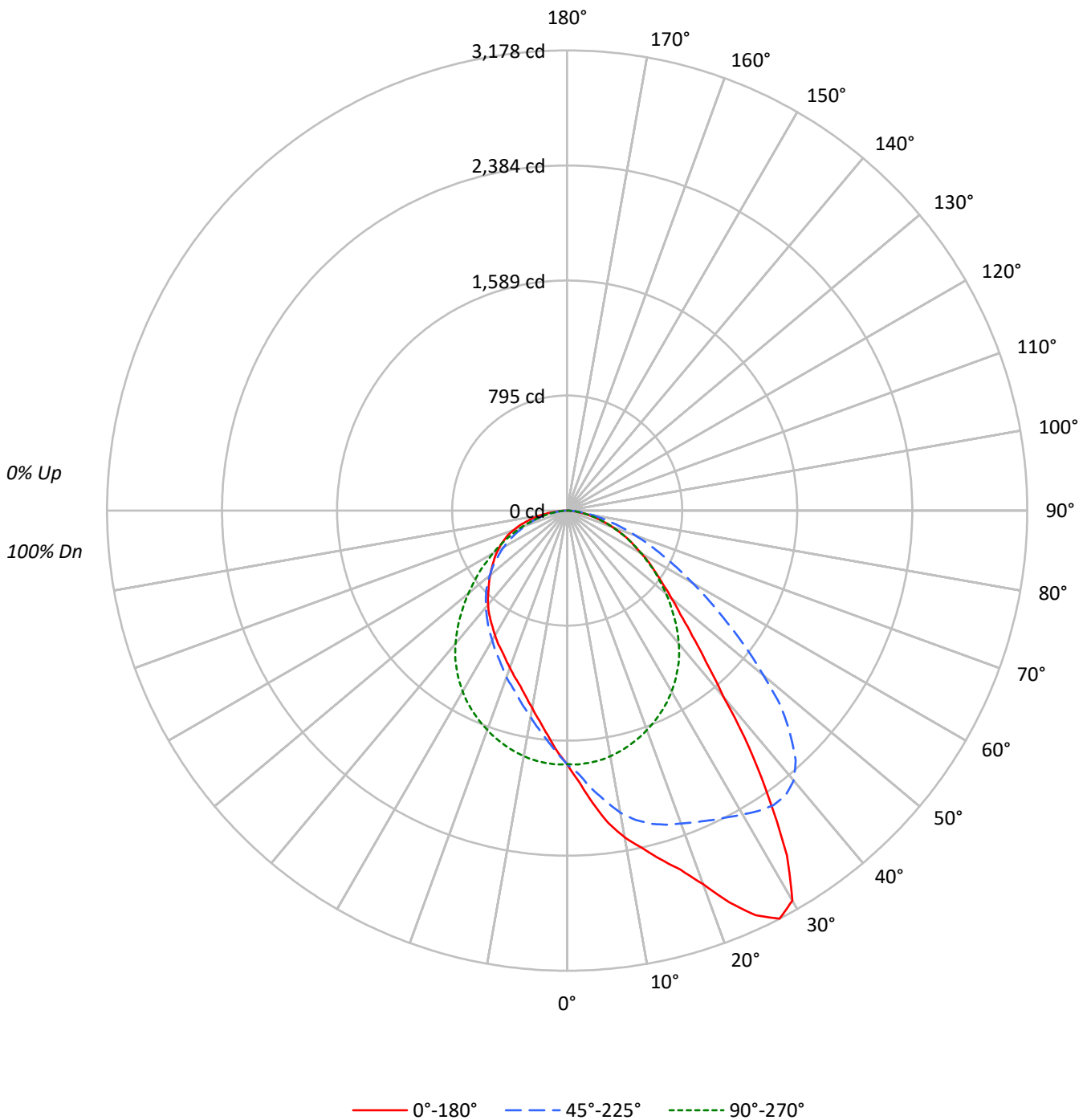
Lumens per Lamp: N/A
Luminaire Lumens: 4991.6 lumens
Efficiency: N/A
Efficacy: 132.4 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.22 / 1.53
Luminous Opening: Rectangular (W 3.88' x L: 0.39' x H: 0')
CIE Type: Direct

Input Watts (W): 37.7
Input Voltage (V): 120
Input Current (A_{in}): 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	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	109	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85					85			
2	100	92	86	80	97	90	84	79	87	82	78	84	79	76	81	77	74	72					72			
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	63	61					61			
4	84	73	64	58	82	71	63	57	69	62	56	66	61	56	64	59	55	53					53			
5	78	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	46					46			
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	40					40			
7	67	53	45	39	65	53	44	39	51	44	38	50	43	38	48	42	38	36					36			
8	62	49	40	35	60	48	40	35	47	40	34	46	39	34	44	38	34	32					32			
9	58	45	37	31	57	44	36	31	43	36	31	42	36	31	41	35	31	29					29			
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	12448	12448	12448	12448	12448
5°	14462	13732	12475	11350	11087
10°	16546	15290	12435	10451	10005
15°	18343	16472	12323	9746	9218
20°	20767	17399	12199	9271	8745
25°	24183	18496	12042	8794	8377
30°	25530	19893	11844	8498	8172
35°	21112	21549	11554	8282	7999
40°	15617	22588	11136	8105	7881
45°	12279	21887	10530	7946	7709
50°	10397	19546	9847	7728	7680
55°	9258	16747	9170	7481	7710
60°	8399	14195	8419	7178	7875
65°	7788	12135	7716	6808	8098
70°	6995	10376	6907	6361	8146
75°	5967	8776	6066	5811	8035
80°	4883	7093	4969	5059	7498
85°	3360	4983	3531	3996	6369

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 21887 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.2	3.4
10°-20°	505.6	10.1
20°-30°	821.9	16.5
30°-40°	1000.0	20.0
40°-50°	915.0	18.3
50°-60°	732.3	14.7
60°-70°	510.0	10.2
70°-80°	271.1	5.4
80°-90°	66.6	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°	1496.7	30.0
0°-40°	2496.6	50.0
0°-60°	4144.0	83.0
0°-90°	4991.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4991.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1751	1751	1751	1751	1751	
5°	2027	1925	1749	1591	1554	202
15°	2493	2239	1675	1325	1253	715
25°	3084	2359	1536	1121	1068	1408
35°	2433	2484	1332	954	922	1509
45°	1222	2178	1048	790	767	963
55°	747	1352	740	604	622	674
65°	463	722	459	405	482	456
75°	217	320	221	212	293	235
85°	41	61	43	49	78	53
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°	1751.4	1751.4	1751.4	1751.4	1751.4	1751.4	1751.4	1751.4	1751.4	1751.4	1751.4
2.5°	1875.0	1867.2	1865.0	1865.7	1861.5	1857.9	1849.4	1838.0	1830.2	1820.3	1817.4
5°	2027.0	2007.8	2011.3	2005.7	1996.4	1984.3	1973.7	1956.7	1940.3	1924.7	1904.1
7.5°	2176.1	2172.6	2162.6	2161.2	2146.3	2125.7	2104.4	2080.9	2046.1	2022.0	1994.3
10°	2292.6	2299.7	2285.5	2286.2	2259.9	2239.3	2220.9	2190.3	2151.3	2118.6	2078.1
12.5°	2386.3	2389.2	2387.0	2377.8	2360.8	2326.0	2308.2	2276.2	2233.6	2188.9	2157.6
15°	2492.9	2485.1	2473.0	2461.6	2436.8	2411.9	2375.0	2337.3	2283.4	2238.6	2193.2
17.5°	2599.4	2598.0	2583.1	2558.9	2527.7	2495.0	2439.6	2391.3	2333.8	2274.8	2218.0
20°	2745.7	2737.9	2715.9	2688.2	2630.6	2584.5	2515.6	2449.5	2374.3	2300.4	2234.3
22.5°	2928.9	2903.4	2881.4	2838.7	2772.7	2692.4	2615.0	2519.1	2414.0	2327.4	2245.0
25°	3083.8	3072.4	3049.0	3001.4	2926.1	2829.5	2714.5	2605.8	2473.7	2358.6	2251.4
27.5°	3177.5	3172.5	3158.3	3113.6	3051.1	2955.2	2832.4	2693.9	2544.0	2388.5	2259.9
30°	3110.8	3111.5	3119.3	3114.3	3086.6	3024.8	2915.4	2776.2	2602.9	2424.0	2262.0
32.5°	2823.8	2843.0	2904.1	2933.2	2972.3	2985.0	2936.0	2820.3	2652.7	2459.5	2269.1
35°	2433.2	2480.1	2521.3	2606.5	2708.1	2791.2	2839.5	2801.8	2673.3	2483.6	2272.7
37.5°	2065.3	2061.8	2125.7	2218.0	2326.0	2467.3	2604.4	2679.7	2637.8	2478.7	2266.3
40°	1683.2	1715.9	1755.7	1837.3	1963.8	2137.8	2301.1	2462.3	2520.6	2434.6	2241.4
42.5°	1421.9	1436.8	1476.5	1540.5	1631.4	1808.9	1970.1	2177.5	2326.7	2336.6	2186.8
45°	1221.6	1237.9	1249.3	1312.5	1397.0	1516.3	1681.8	1890.6	2090.9	2177.5	2098.0
47.5°	1061.1	1070.3	1095.2	1133.5	1188.9	1294.7	1426.8	1616.5	1834.5	2002.8	1975.8
50°	940.3	947.4	967.3	988.6	1034.1	1112.2	1218.7	1374.3	1583.8	1767.7	1828.1
52.5°	833.8	843.0	853.0	873.6	915.5	968.0	1054.7	1176.1	1370.7	1558.9	1654.8
55°	747.1	750.7	761.4	777.0	808.9	848.7	917.6	1027.7	1164.0	1351.5	1483.6
57.5°	671.9	668.3	679.7	690.3	711.6	745.0	794.7	876.4	1006.4	1166.2	1304.0
60°	590.9	594.5	603.0	611.5	626.4	655.5	694.6	759.9	855.1	998.6	1139.2
62.5°	521.3	524.1	526.3	538.3	551.8	572.4	604.4	657.7	736.5	855.1	980.8
65°	463.1	458.1	460.9	469.5	480.1	497.2	527.0	566.0	625.0	721.6	826.0
67.5°	394.9	396.3	397.0	402.0	411.2	427.6	448.9	480.8	529.1	605.1	696.7
70°	336.6	337.4	338.1	342.3	350.1	359.4	374.3	399.1	440.3	499.3	571.0
72.5°	277.0	279.8	279.8	283.4	289.1	294.0	308.2	328.8	360.1	407.0	467.3
75°	217.3	222.3	223.7	228.0	233.0	234.4	245.0	261.4	281.2	319.6	367.2
77.5°	169.0	169.0	171.9	176.8	176.8	181.1	192.5	199.6	215.2	241.5	277.7
80°	119.3	121.4	121.4	122.9	125.7	129.3	134.2	140.6	154.1	173.3	192.5
82.5°	78.1	78.8	79.5	83.1	81.7	85.2	87.4	95.2	101.6	110.8	122.9
85°	41.2	41.2	41.9	44.0	46.2	46.9	48.3	51.8	56.8	61.1	68.2
87.5°	17.0	16.3	16.3	17.8	17.8	18.5	19.2	20.6	23.4	23.4	26.3
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°	1751.4	1751.4	1751.4	1751.4	1751.4	1751.4	1751.4	1751.4	1751.4	1751.4	1751.4
2.5°	1815.3	1809.6	1799.7	1791.2	1780.5	1772.7	1764.9	1754.9	1745.0	1734.4	1723.0
5°	1887.8	1870.7	1851.5	1832.4	1809.6	1791.2	1771.3	1748.6	1729.4	1708.1	1685.3
7.5°	1970.9	1941.0	1907.6	1870.0	1834.5	1802.5	1769.9	1738.6	1710.2	1678.2	1647.0
10°	2051.1	1999.3	1957.4	1906.2	1855.8	1808.9	1764.2	1723.0	1681.8	1642.0	1603.7
12.5°	2105.8	2046.8	1994.3	1935.3	1876.4	1817.4	1758.5	1701.7	1652.7	1604.4	1563.9
15°	2143.4	2102.2	2032.6	1961.6	1884.2	1807.5	1740.7	1674.7	1616.5	1560.3	1512.1
17.5°	2166.9	2113.6	2045.4	1970.9	1885.6	1805.4	1725.1	1646.3	1579.5	1519.2	1464.5
20°	2173.3	2110.8	2039.7	1962.3	1877.1	1789.0	1698.8	1612.9	1540.5	1471.6	1416.2
22.5°	2166.9	2094.4	2018.4	1943.2	1853.7	1764.2	1669.7	1576.0	1492.9	1421.9	1363.6
25°	2156.2	2068.9	1989.3	1900.5	1817.4	1732.2	1634.9	1535.5	1448.8	1375.0	1309.6
27.5°	2142.7	2042.6	1944.6	1857.2	1767.0	1683.2	1593.7	1492.2	1402.0	1321.0	1259.9
30°	2127.1	2007.8	1899.1	1795.4	1710.2	1626.4	1539.0	1443.2	1352.3	1274.8	1208.8
32.5°	2109.3	1970.9	1843.0	1731.5	1640.6	1563.2	1481.5	1389.9	1300.4	1217.3	1159.8
35°	2084.5	1920.4	1782.6	1661.9	1567.5	1483.6	1411.9	1331.7	1242.9	1165.5	1105.8
37.5°	2055.4	1875.7	1721.6	1590.9	1487.9	1402.0	1335.9	1270.6	1187.5	1112.9	1055.4
40°	2016.3	1821.7	1656.9	1515.6	1405.5	1321.0	1256.4	1200.3	1131.4	1056.1	1004.2
42.5°	1965.2	1762.1	1583.8	1433.2	1326.7	1236.5	1176.1	1125.0	1066.0	1000.7	949.6
45°	1906.9	1693.9	1502.1	1354.4	1238.6	1152.7	1093.7	1047.6	1002.8	944.6	897.0
47.5°	1816.0	1613.6	1428.2	1264.9	1151.3	1068.2	1012.8	968.7	935.4	889.2	842.3
50°	1708.1	1522.7	1340.9	1176.8	1061.8	981.5	929.0	890.6	862.2	826.7	791.2
52.5°	1589.5	1420.4	1245.0	1091.6	976.5	900.6	845.2	811.1	792.6	764.2	736.5
55°	1451.0	1305.4	1142.0	1002.1	889.2	811.8	764.2	740.0	719.5	705.2	680.4
57.5°	1311.8	1188.9	1043.3	904.8	801.1	732.2	689.6	662.6	647.7	637.8	620.0
60°	1159.8	1063.2	929.7	809.6	717.3	652.0	614.3	592.3	578.8	573.1	561.1
62.5°	1014.9	941.0	819.6	719.5	637.1	579.5	541.9	524.1	515.6	509.2	502.1
65°	872.1	813.9	718.0	624.3	554.7	502.8	473.0	458.8	452.4	445.3	444.6
67.5°	743.6	690.3	613.6	536.9	478.7	434.7	408.4	394.2	387.1	387.8	384.2
70°	617.2	576.0	513.5	451.0	401.3	366.5	341.6	332.4	329.5	328.8	326.0
72.5°	499.3	475.8	421.2	368.6	329.5	302.6	282.7	274.9	271.3	269.9	269.9
75°	395.6	378.5	331.7	291.9	262.1	240.1	226.6	220.9	215.9	218.7	216.6
77.5°	296.9	282.7	250.7	222.3	199.6	181.1	174.7	169.7	166.9	166.2	169.0
80°	208.8	200.3	180.4	157.7	140.6	130.0	125.7	121.4	119.3	117.9	119.3
82.5°	134.2	129.3	115.1	101.6	91.6	85.9	81.7	79.5	76.0	76.7	78.1
85°	73.2	71.7	62.5	58.2	49.0	48.3	45.5	43.3	44.0	42.6	44.7
87.5°	29.8	28.4	26.3	24.1	21.3	19.2	17.8	19.2	17.0	19.2	18.5
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°	1751.4	1751.4	1751.4	1751.4	1751.4	1751.4	1751.4	1751.4	1751.4	1751.4	1751.4
2.5°	1717.3	1709.5	1700.3	1691.7	1679.0	1670.4	1666.2	1667.6	1662.6	1661.2	1660.5
5°	1671.9	1654.1	1637.1	1622.8	1607.9	1590.9	1578.8	1575.3	1573.8	1570.3	1562.5
7.5°	1625.0	1602.3	1580.2	1559.6	1538.3	1518.4	1506.4	1496.4	1490.7	1480.8	1478.7
10°	1575.3	1547.6	1524.1	1494.3	1468.7	1448.1	1432.5	1424.0	1419.0	1409.8	1402.0
12.5°	1527.7	1498.6	1462.3	1435.4	1408.4	1387.1	1369.3	1355.1	1351.5	1339.5	1333.1
15°	1476.5	1441.0	1408.4	1377.1	1351.5	1324.6	1313.9	1301.1	1288.3	1277.7	1275.6
17.5°	1427.5	1384.9	1353.0	1322.4	1291.2	1271.3	1257.1	1248.6	1238.6	1232.9	1223.0
20°	1368.6	1333.8	1298.3	1269.9	1242.9	1225.8	1206.7	1198.8	1191.7	1178.3	1174.0
22.5°	1318.9	1277.0	1247.1	1218.7	1194.6	1170.4	1156.9	1149.1	1138.5	1131.4	1125.7
25°	1267.0	1232.2	1194.6	1166.2	1145.6	1121.4	1112.2	1102.3	1093.0	1086.6	1081.0
27.5°	1216.6	1178.3	1147.7	1119.3	1098.0	1081.0	1068.2	1057.5	1051.1	1046.2	1042.6
30°	1164.0	1128.5	1100.1	1073.8	1049.7	1035.5	1023.4	1019.2	1012.1	1008.5	1002.8
32.5°	1116.5	1080.2	1053.3	1030.5	1009.2	995.0	987.9	981.5	974.4	968.0	967.3
35°	1062.5	1031.2	1006.4	981.5	965.9	954.5	946.7	940.3	934.6	929.7	926.8
37.5°	1014.9	985.1	957.4	939.6	922.6	912.6	904.1	902.0	896.3	897.0	892.7
40°	963.8	936.8	913.3	895.6	884.2	873.6	867.9	860.8	857.2	857.9	854.4
42.5°	914.1	889.2	867.9	851.6	839.5	831.7	826.7	821.0	816.8	813.9	813.2
45°	863.6	841.6	823.9	807.5	797.6	790.5	784.1	777.0	773.4	772.0	771.3
47.5°	813.9	794.0	774.8	763.5	754.3	747.9	741.5	735.8	732.9	730.8	727.3
50°	762.8	742.9	729.4	715.2	707.4	698.9	691.8	688.9	685.4	684.7	688.2
52.5°	709.5	693.9	681.8	670.4	661.2	652.0	644.9	641.3	643.5	643.5	647.7
55°	659.1	642.7	631.4	622.2	612.2	603.7	596.6	596.6	596.6	600.8	606.5
57.5°	603.0	588.8	580.2	569.6	560.4	554.7	549.7	549.0	551.8	558.9	565.3
60°	546.2	536.2	527.0	518.5	509.2	505.0	504.3	502.8	507.1	514.2	527.7
62.5°	490.1	483.7	472.3	468.0	460.2	455.2	455.2	456.7	463.1	474.4	486.5
65°	436.1	426.8	418.3	414.1	409.1	404.8	404.8	410.5	419.7	430.4	445.3
67.5°	380.7	372.9	367.2	362.9	357.2	355.1	357.2	363.6	375.0	385.6	401.3
70°	321.0	319.6	314.6	308.9	306.1	306.1	308.2	315.3	323.9	340.2	353.7
72.5°	266.3	266.3	263.5	259.9	257.8	259.9	261.4	268.5	279.1	293.3	308.2
75°	216.6	214.5	212.4	210.9	210.2	211.6	213.8	219.5	232.2	245.7	257.8
77.5°	167.6	166.2	164.1	165.5	165.5	166.2	172.6	179.0	186.1	196.7	209.5
80°	120.7	121.4	119.3	118.6	122.2	123.6	128.5	133.5	138.5	150.6	159.8
82.5°	79.5	81.0	80.3	81.7	83.1	83.1	88.8	93.7	98.0	106.5	113.6
85°	45.5	46.2	46.2	48.3	49.7	49.0	54.0	56.8	58.9	65.3	69.6
87.5°	19.9	20.6	21.3	21.3	21.3	24.1	24.9	26.3	27.0	28.4	30.5
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: P243679

CATALOG NUMBER: S125DRP-H1270D840-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1751.4	1751.4	1751.4	1751.4
2.5°	1654.1	1653.4	1656.9	1659.1
5°	1557.5	1555.4	1552.5	1554.0
7.5°	1471.6	1465.9	1464.5	1464.5
10°	1395.6	1389.9	1388.5	1386.3
12.5°	1330.9	1322.4	1318.9	1315.3
15°	1269.9	1268.4	1260.6	1252.8
17.5°	1213.8	1215.9	1208.1	1204.5
20°	1166.9	1160.5	1157.7	1156.2
22.5°	1119.3	1114.3	1114.3	1109.4
25°	1076.7	1072.4	1073.1	1068.2
27.5°	1036.9	1036.2	1035.5	1034.1
30°	1000.0	997.1	994.3	995.7
32.5°	964.5	960.2	958.1	957.4
35°	927.5	926.1	923.3	921.9
37.5°	891.3	892.0	888.5	887.8
40°	852.3	851.6	850.8	849.4
42.5°	811.1	808.9	810.4	809.6
45°	769.9	767.7	769.2	767.0
47.5°	729.4	730.8	730.8	731.5
50°	689.6	692.5	692.5	694.6
52.5°	652.7	658.4	658.4	657.7
55°	612.9	619.3	621.4	622.2
57.5°	575.3	581.7	588.1	589.5
60°	534.8	546.2	552.5	554.0
62.5°	498.6	509.2	517.7	518.5
65°	458.1	470.9	478.7	481.5
67.5°	416.9	426.8	437.5	441.8
70°	370.0	382.1	389.2	392.0
72.5°	321.0	334.5	343.7	345.2
75°	274.1	284.1	291.2	292.6
77.5°	220.9	230.8	237.2	238.6
80°	167.6	176.1	180.4	183.2
82.5°	118.6	124.3	126.4	129.3
85°	73.2	77.4	78.1	78.1
87.5°	32.0	32.7	32.7	34.1
90°	0.0	0.0	0.0	0.0

TEST NUMBER: P243679

CATALOG NUMBER: S125DRP-H1270D840-X4F0-XX-UDD-A-W

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	19.60	21.17	19.96	21.48	21.79	19.34	20.91	19.70	21.22	21.54
	3H	20.95	22.36	21.33	22.69	23.05	20.76	22.18	21.14	22.50	22.86
	4H	21.43	22.76	21.83	23.11	23.48	21.25	22.58	21.65	22.93	23.30
	6H	21.74	22.97	22.15	23.33	23.72	21.57	22.79	21.98	23.16	23.55
	8H	21.81	22.98	22.24	23.37	23.77	21.64	22.82	22.07	23.20	23.60
	12H	21.85	22.97	22.28	23.35	23.78	21.68	22.80	22.11	23.19	23.61
4H	2H	20.98	22.31	21.38	22.66	23.04	20.40	21.73	20.80	22.08	22.45
	3H	22.34	23.45	22.75	23.85	24.25	22.06	23.16	22.47	23.56	23.96
	4H	22.85	23.84	23.28	24.26	24.70	22.62	23.61	23.05	24.03	24.47
	6H	23.20	24.07	23.66	24.51	24.97	23.00	23.86	23.45	24.31	24.76
	8H	23.29	24.10	23.75	24.55	25.01	23.09	23.90	23.55	24.35	24.81
	12H	23.34	24.07	23.82	24.54	25.01	23.15	23.87	23.63	24.35	24.82
8H	4H	23.30	24.11	23.76	24.56	25.02	22.97	23.78	23.43	24.23	24.69
	6H	23.73	24.40	24.23	24.89	25.37	23.47	24.14	23.97	24.63	25.11
	8H	23.86	24.46	24.37	24.97	25.46	23.62	24.22	24.13	24.73	25.22
	12H	23.95	24.48	24.45	24.97	25.53	23.72	24.25	24.23	24.74	25.31
12H	4H	23.34	24.07	23.82	24.55	25.02	22.99	23.72	23.47	24.19	24.66
	6H	23.80	24.41	24.31	24.91	25.40	23.52	24.12	24.03	24.63	25.12
	8H	23.98	24.51	24.49	25.00	25.57	23.72	24.26	24.23	24.75	25.31