

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: P242824

Luminaire Tested: S125DRP-S1270D930-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P242824
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DRP-S1270D930-X4F0-XX-UDD-A-W
Description: DEFINE 5 DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

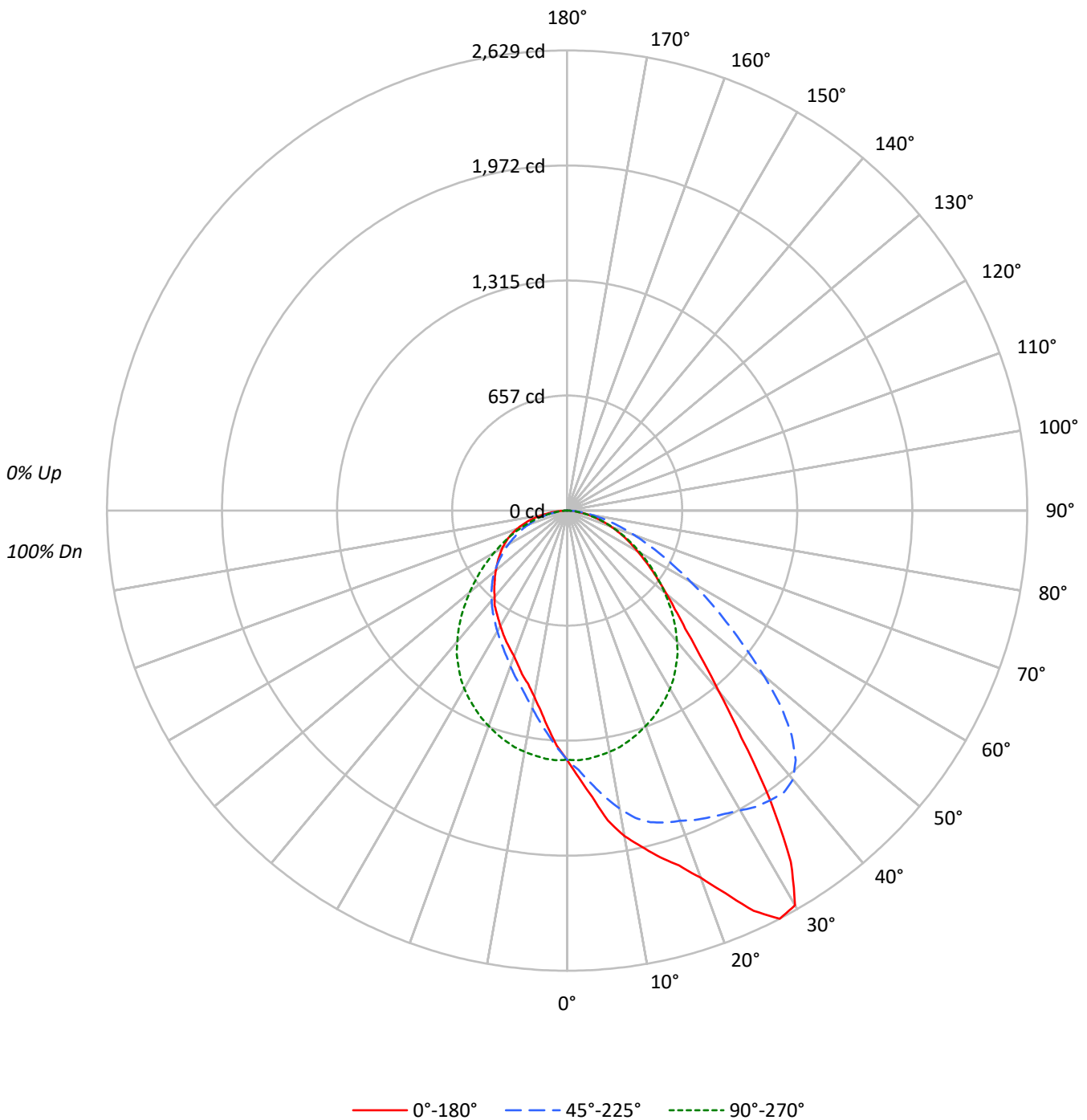
Lumens per Lamp: N/A
Luminaire Lumens: 4016.7 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.23 / 1.53
Luminous Opening: Rectangular (W 3.88' x L: 0.39' x H: 0')
CIE Type: Direct

Input Watts (W): 41.1
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	98	90	84	79	87	82	78	84	80	76	81	77	74	72					72			
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	61					61			
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	53					53			
5	78	65	56	50	76	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	41					41			
7	67	53	45	39	65	53	45	39	51	44	39	50	43	38	48	42	38	36					36			
8	62	49	41	35	61	48	40	35	47	40	34	46	39	34	44	39	34	32					32			
9	58	45	37	31	57	44	37	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°	10117	10117	10117	10117	10117
5°	11716	11159	10150	9129	8887
10°	13629	12478	10098	8271	7787
15°	15088	13562	10024	7602	7184
20°	16888	14265	9907	7160	6699
25°	19785	15156	9774	6789	6462
30°	21369	16233	9644	6540	6257
35°	17571	17533	9398	6369	6122
40°	12488	18621	9058	6227	5975
45°	9594	18223	8599	6103	5890
50°	8190	16212	8030	5952	5878
55°	7291	13767	7471	5735	5929
60°	6579	11628	6861	5531	6080
65°	6076	9905	6248	5252	6238
70°	5523	8424	5613	4896	6328
75°	4877	7200	4943	4512	6272
80°	4105	5910	4032	3831	5738
85°	3254	4289	2903	3156	4632

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 18223 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.0	3.4
10°-20°	408.0	10.2
20°-30°	662.8	16.5
30°-40°	810.0	20.2
40°-50°	734.9	18.3
50°-60°	585.3	14.6
60°-70°	407.7	10.1
70°-80°	217.1	5.4
80°-90°	53.9	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°	1207.8	30.1
0°-40°	2017.9	50.2
0°-60°	3338.0	83.1
0°-90°	4016.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4016.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1423	1423	1423	1423	1423	
5°	1642	1564	1423	1280	1246	165
15°	2050	1843	1362	1033	976	586
25°	2523	1933	1246	866	824	1156
35°	2025	2021	1083	734	706	1242
45°	954	1813	856	607	586	760
55°	588	1111	603	463	478	529
65°	361	589	372	312	371	358
75°	178	262	180	164	228	191
85°	40	53	36	39	57	47
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°	1423.4	1423.4	1423.4	1423.4	1423.4	1423.4	1423.4	1423.4	1423.4	1423.4	1423.4
2.5°	1526.1	1523.6	1521.2	1516.4	1520.0	1509.7	1504.9	1496.5	1486.2	1482.6	1478.3
5°	1642.1	1645.1	1648.1	1635.4	1636.6	1628.2	1608.8	1593.1	1580.4	1564.1	1552.6
7.5°	1785.8	1776.8	1777.4	1769.5	1755.6	1744.2	1725.4	1699.4	1675.9	1649.3	1626.3
10°	1888.5	1889.1	1883.7	1874.0	1858.9	1848.1	1821.5	1796.1	1765.3	1729.0	1703.1
12.5°	1965.9	1968.9	1961.6	1947.7	1942.3	1914.5	1895.2	1863.8	1825.7	1798.5	1755.6
15°	2050.5	2043.8	2039.0	2022.7	2010.0	1984.6	1951.4	1920.0	1880.1	1843.2	1806.4
17.5°	2125.4	2130.8	2122.9	2110.9	2073.4	2043.8	2002.7	1962.9	1915.1	1869.2	1826.3
20°	2232.9	2237.7	2223.8	2197.9	2150.7	2121.1	2062.5	2007.0	1949.6	1886.1	1837.8
22.5°	2367.0	2361.0	2341.0	2298.1	2258.9	2197.9	2133.2	2062.5	1987.0	1913.3	1845.0
25°	2522.9	2497.5	2486.0	2437.1	2383.3	2303.0	2216.0	2116.9	2027.5	1932.6	1850.5
27.5°	2629.2	2618.9	2602.6	2562.8	2501.1	2409.9	2307.2	2188.8	2068.6	1952.6	1849.3
30°	2603.8	2605.1	2606.3	2595.4	2559.1	2494.5	2392.4	2262.5	2112.7	1978.0	1853.5
32.5°	2379.1	2406.3	2432.3	2466.1	2487.8	2488.5	2434.1	2319.9	2164.6	2007.0	1851.1
35°	2025.1	2031.7	2100.0	2167.7	2259.5	2330.8	2378.5	2326.5	2196.7	2020.8	1849.3
37.5°	1637.2	1670.4	1721.8	1797.9	1935.7	2048.0	2195.4	2246.2	2185.2	2032.3	1848.7
40°	1346.0	1376.2	1407.0	1485.0	1596.7	1740.5	1913.9	2061.9	2096.4	2007.0	1830.5
42.5°	1121.3	1143.6	1178.7	1232.4	1321.3	1444.5	1608.2	1813.0	1953.2	1933.2	1792.5
45°	954.5	969.6	996.2	1042.7	1110.4	1210.1	1356.3	1567.7	1752.0	1813.0	1727.8
47.5°	836.1	836.7	858.5	891.7	943.1	1034.9	1144.2	1318.2	1517.0	1657.8	1637.8
50°	740.7	737.7	754.0	781.8	820.4	876.6	979.9	1112.2	1301.3	1466.2	1512.2
52.5°	658.5	659.7	668.2	686.9	717.7	763.6	834.3	950.3	1105.0	1275.3	1372.0
55°	588.4	586.0	597.5	611.4	635.0	666.4	721.9	813.2	944.3	1111.0	1223.4
57.5°	520.8	527.4	532.2	541.9	562.5	584.2	633.7	703.8	812.0	960.0	1079.0
60°	462.8	469.4	473.0	482.7	498.4	516.5	552.8	607.2	694.8	818.0	935.8
62.5°	410.8	415.6	416.3	424.7	436.8	454.3	480.9	524.4	589.0	692.9	807.7
65°	361.3	361.3	363.7	372.8	378.8	394.5	416.3	449.5	505.1	589.0	687.5
67.5°	312.9	316.0	315.4	319.6	325.0	338.3	354.6	382.4	426.5	490.0	571.5
70°	265.8	268.2	267.6	270.7	276.7	284.5	297.2	323.2	352.8	405.4	473.0
72.5°	223.5	224.1	222.3	226.6	229.6	236.2	250.7	261.6	288.8	331.1	383.6
75°	177.6	178.8	180.0	182.5	186.1	189.7	196.9	210.8	229.0	262.2	297.8
77.5°	141.4	138.3	142.0	141.4	143.2	146.2	152.8	160.7	176.4	198.8	228.4
80°	100.3	100.9	100.9	101.5	104.5	106.3	111.8	117.2	128.7	144.4	163.7
82.5°	66.5	68.3	67.1	68.3	70.7	71.9	74.3	78.5	84.0	95.5	108.1
85°	39.9	36.9	38.1	39.3	39.3	39.9	42.3	44.1	47.7	52.6	58.0
87.5°	14.5	15.7	16.3	16.3	16.9	16.9	19.3	19.3	21.1	23.0	25.4
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°	1423.4	1423.4	1423.4	1423.4	1423.4	1423.4	1423.4	1423.4	1423.4	1423.4	1423.4
2.5°	1474.7	1470.5	1465.6	1457.2	1446.9	1441.5	1433.0	1427.6	1416.7	1407.6	1398.0
5°	1538.7	1523.0	1508.5	1489.8	1469.3	1456.0	1440.3	1422.7	1404.6	1385.9	1365.4
7.5°	1602.8	1576.8	1548.4	1518.8	1489.8	1462.6	1437.2	1411.3	1387.7	1358.1	1333.3
10°	1667.4	1632.4	1594.9	1550.8	1507.9	1470.5	1432.4	1399.2	1365.4	1329.1	1297.1
12.5°	1732.1	1682.5	1625.7	1576.2	1522.4	1475.3	1428.8	1384.1	1339.4	1298.3	1259.6
15°	1755.6	1714.5	1665.6	1596.7	1538.7	1476.5	1417.3	1362.3	1311.0	1266.3	1219.2
17.5°	1778.6	1726.0	1674.1	1607.6	1532.1	1465.0	1398.0	1338.2	1281.4	1225.2	1182.3
20°	1784.0	1729.7	1674.7	1610.0	1532.1	1452.4	1385.3	1309.8	1247.5	1188.9	1133.4
22.5°	1782.2	1718.8	1657.8	1590.7	1515.2	1443.3	1358.7	1281.4	1212.5	1155.1	1096.5
25°	1768.9	1703.1	1628.2	1561.1	1486.2	1408.3	1326.1	1246.3	1177.5	1111.6	1054.2
27.5°	1761.1	1677.7	1595.5	1518.2	1446.3	1374.4	1294.7	1212.5	1137.0	1069.9	1016.8
30°	1743.5	1649.9	1554.5	1472.9	1398.6	1329.1	1254.8	1175.1	1095.3	1030.1	972.1
32.5°	1727.8	1614.9	1512.8	1422.1	1342.4	1275.3	1208.3	1133.4	1055.4	989.0	931.0
35°	1706.7	1580.4	1465.0	1364.8	1280.8	1211.3	1153.9	1083.2	1011.3	947.3	891.7
37.5°	1681.9	1535.7	1413.7	1309.2	1217.9	1145.4	1091.1	1036.1	964.2	901.4	851.8
40°	1651.7	1487.4	1356.3	1248.8	1153.3	1077.2	1027.6	976.3	918.9	861.5	808.3
42.5°	1613.7	1443.9	1298.3	1180.5	1086.2	1012.5	960.0	918.3	869.4	816.8	768.5
45°	1565.3	1389.5	1234.9	1110.4	1015.0	941.9	888.1	855.5	817.4	766.7	725.0
47.5°	1501.3	1327.9	1168.4	1039.7	941.3	873.6	822.2	790.2	762.4	722.6	683.3
50°	1410.1	1257.2	1095.3	967.8	869.4	801.1	754.6	726.2	703.2	674.2	642.2
52.5°	1308.0	1168.4	1023.4	897.8	800.5	733.4	688.1	663.9	645.8	627.1	595.7
55°	1198.6	1077.8	940.0	820.4	730.4	664.6	624.7	602.9	587.2	571.5	552.2
57.5°	1080.8	982.9	856.7	744.9	661.5	599.9	562.5	540.1	527.4	519.0	506.9
60°	955.1	874.2	769.1	669.4	588.4	535.3	499.0	482.7	472.4	465.8	457.3
62.5°	838.5	775.7	680.3	591.5	523.2	473.6	442.2	426.5	416.9	414.4	407.8
65°	724.4	673.0	592.7	517.1	456.7	413.8	386.6	371.5	365.5	361.9	362.5
67.5°	609.6	576.3	509.3	442.8	393.3	355.2	332.9	321.4	318.4	312.9	312.9
70°	506.3	482.7	428.3	372.2	329.3	301.5	282.1	270.1	267.0	264.6	264.0
72.5°	415.0	395.1	349.8	307.5	270.1	246.5	231.4	225.3	219.9	218.7	218.7
75°	325.6	314.2	276.7	241.1	214.5	197.6	186.7	180.0	176.4	175.8	176.4
77.5°	245.9	235.0	209.0	182.5	164.9	151.6	141.4	139.6	134.7	135.3	134.1
80°	174.0	167.3	152.2	132.3	118.4	107.5	102.7	98.5	97.3	95.5	97.3
82.5°	114.2	106.9	97.9	87.0	76.1	70.7	65.9	65.2	64.6	64.0	64.0
85°	62.2	62.8	56.8	47.1	42.3	38.7	35.6	35.6	35.0	34.4	35.0
87.5°	26.6	25.4	23.0	21.1	18.1	16.3	15.7	16.3	14.5	13.9	14.5
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°	1423.4	1423.4	1423.4	1423.4	1423.4	1423.4	1423.4	1423.4	1423.4	1423.4	1423.4
2.5°	1392.5	1385.9	1380.5	1368.4	1361.7	1352.7	1345.4	1353.3	1344.8	1348.4	1343.0
5°	1355.1	1338.2	1326.1	1308.6	1293.5	1279.6	1269.3	1267.5	1262.7	1260.2	1253.0
7.5°	1310.4	1291.0	1271.1	1249.4	1231.2	1211.9	1200.4	1189.6	1182.9	1174.4	1167.8
10°	1271.7	1243.3	1219.2	1191.4	1167.2	1146.1	1129.1	1120.7	1112.8	1101.3	1097.1
12.5°	1224.0	1194.4	1163.6	1133.4	1110.4	1086.2	1072.3	1058.5	1053.6	1040.3	1039.7
15°	1187.7	1143.6	1114.6	1084.4	1052.4	1033.1	1021.0	1007.1	1001.1	992.0	985.4
17.5°	1143.0	1103.2	1066.9	1036.1	1007.1	991.4	975.7	966.0	955.7	949.1	938.2
20°	1093.5	1056.0	1019.8	986.6	965.4	946.7	934.6	925.5	914.7	911.6	900.8
22.5°	1051.8	1009.5	975.1	948.5	924.9	903.2	889.9	884.5	877.8	866.9	866.9
25°	1005.9	963.0	933.4	905.6	885.1	865.7	856.7	848.8	841.6	834.9	832.5
27.5°	967.2	929.2	892.9	867.5	850.0	831.9	824.0	813.8	808.3	802.9	795.7
30°	926.1	886.9	856.1	831.9	812.6	796.9	788.4	781.8	776.9	772.1	768.5
32.5°	883.9	848.2	818.6	795.0	775.7	764.8	757.6	753.4	747.9	741.9	737.1
35°	847.6	807.7	778.7	758.2	743.1	734.0	725.6	721.3	715.3	715.3	710.5
37.5°	804.7	769.7	743.7	725.0	711.7	703.2	693.6	691.1	686.9	684.5	682.7
40°	767.3	735.2	711.1	692.3	677.8	671.2	663.9	659.1	656.7	653.7	652.5
42.5°	728.6	698.4	675.4	658.5	646.4	641.0	634.3	631.3	625.9	621.7	621.1
45°	689.3	659.7	638.6	624.7	613.8	607.2	602.9	595.7	593.3	588.4	587.8
47.5°	653.1	624.1	602.9	591.5	581.8	577.0	570.3	562.5	559.4	556.4	555.8
50°	611.4	585.4	566.1	555.2	546.1	538.3	531.6	526.8	525.0	525.0	526.2
52.5°	569.1	548.0	532.2	518.4	509.9	501.4	495.4	493.0	490.0	493.6	496.0
55°	528.0	505.7	493.6	480.9	472.4	462.8	459.8	458.5	456.7	461.6	464.0
57.5°	483.9	468.8	454.3	441.0	433.8	427.7	422.9	422.3	425.9	427.1	434.4
60°	442.2	424.1	411.4	401.8	392.7	389.1	387.9	386.6	389.1	395.7	406.0
62.5°	396.3	382.4	368.5	361.9	355.8	349.2	349.2	350.4	355.8	363.7	374.0
65°	351.6	338.9	329.9	321.4	316.0	312.3	313.5	316.0	321.4	331.7	343.2
67.5°	305.7	297.2	288.8	280.9	275.5	276.1	276.7	279.7	286.4	298.4	309.3
70°	261.6	251.9	245.3	242.3	238.0	235.6	239.2	245.3	250.7	261.6	270.7
72.5°	217.5	209.6	204.8	203.0	201.8	200.0	200.6	207.2	215.1	225.9	236.8
75°	174.0	171.0	167.3	164.9	163.1	164.3	165.5	171.6	177.6	189.1	201.2
77.5°	134.7	131.1	128.7	128.1	126.9	127.5	130.5	135.3	141.4	149.8	159.5
80°	96.1	94.8	93.6	93.0	93.0	93.6	98.5	101.5	106.9	114.8	122.0
82.5°	63.4	62.8	62.8	62.8	63.4	63.4	65.9	70.1	74.3	79.7	85.8
85°	36.9	35.6	37.5	38.1	36.9	38.7	39.9	42.3	44.1	47.1	50.1
87.5°	15.1	16.3	15.7	16.3	16.3	17.5	16.9	19.3	20.5	21.7	21.1
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: P242824

CATALOG NUMBER: S125DRP-S1270D930-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1423.4	1423.4	1423.4	1423.4
2.5°	1339.4	1343.6	1340.0	1344.8
5°	1250.0	1244.5	1248.2	1245.7
7.5°	1167.2	1162.4	1155.1	1152.7
10°	1090.5	1083.8	1083.2	1079.0
12.5°	1034.3	1028.2	1019.8	1018.6
15°	981.7	976.9	972.7	976.3
17.5°	937.0	932.8	931.6	928.0
20°	895.3	892.3	893.5	885.7
22.5°	862.1	855.5	854.3	854.3
25°	827.1	824.0	821.0	824.0
27.5°	796.3	793.2	792.0	792.6
30°	768.5	762.4	763.0	762.4
32.5°	738.3	734.6	733.4	732.2
35°	708.7	708.7	705.6	705.6
37.5°	681.5	680.9	679.1	680.3
40°	650.1	649.5	647.6	644.0
42.5°	619.8	617.4	616.8	616.2
45°	587.8	587.8	586.6	586.0
47.5°	556.4	557.6	560.0	559.4
50°	528.6	529.2	531.0	531.6
52.5°	497.8	502.0	504.5	503.9
55°	469.4	473.6	477.9	478.5
57.5°	441.0	446.5	450.7	451.9
60°	412.0	419.9	425.3	427.7
62.5°	384.2	393.3	398.7	398.7
65°	353.4	362.5	367.3	370.9
67.5°	321.4	330.5	335.3	338.3
70°	285.8	294.8	302.1	304.5
72.5°	250.7	258.6	264.0	267.0
75°	209.0	219.9	225.3	228.4
77.5°	169.2	180.0	183.1	184.9
80°	129.3	135.3	139.6	140.2
82.5°	91.8	96.7	97.3	99.1
85°	54.4	56.8	57.4	56.8
87.5°	22.4	21.7	21.7	23.0
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P242824
 CATALOG NUMBER: S125DRP-S1270D930-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	18.70	20.26	19.06	20.58	20.89	18.67	20.24	19.03	20.55	20.87
	3H	20.07	21.48	20.44	21.80	22.17	20.10	21.51	20.48	21.84	22.20
	4H	20.56	21.89	20.96	22.23	22.61	20.59	21.91	20.98	22.26	22.64
	6H	20.90	22.12	21.31	22.49	22.88	20.90	22.13	21.31	22.49	22.88
	8H	20.99	22.16	21.41	22.55	22.95	20.98	22.15	21.41	22.54	22.94
	12H	21.04	22.16	21.47	22.54	22.97	21.02	22.14	21.45	22.52	22.95
4H	2H	20.20	21.53	20.60	21.88	22.25	19.75	21.07	20.15	21.42	21.80
	3H	21.55	22.65	21.96	23.05	23.45	21.41	22.51	21.82	22.91	23.31
	4H	22.06	23.05	22.49	23.46	23.90	21.96	22.96	22.40	23.37	23.81
	6H	22.43	23.30	22.88	23.74	24.19	22.34	23.21	22.79	23.65	24.11
	8H	22.53	23.34	22.99	23.78	24.25	22.43	23.24	22.90	23.69	24.15
	12H	22.59	23.32	23.08	23.80	24.27	22.49	23.22	22.97	23.69	24.16
8H	4H	22.54	23.35	23.00	23.79	24.26	22.31	23.12	22.77	23.56	24.03
	6H	22.99	23.66	23.49	24.15	24.63	22.81	23.48	23.30	23.97	24.45
	8H	23.13	23.74	23.65	24.24	24.73	22.95	23.56	23.47	24.07	24.55
	12H	23.24	23.77	23.75	24.26	24.82	23.05	23.59	23.56	24.08	24.64
12H	4H	22.59	23.31	23.07	23.79	24.26	22.32	23.05	22.80	23.53	24.00
	6H	23.07	23.68	23.58	24.18	24.67	22.85	23.46	23.37	23.97	24.45
	8H	23.27	23.80	23.77	24.29	24.85	23.06	23.59	23.57	24.08	24.65