

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: P242804

Luminaire Tested: S125DRP-S1270D927-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P242804
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-S1270D927-X4F0-XX-UDD-A-W
Description: DEFINE 5 DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

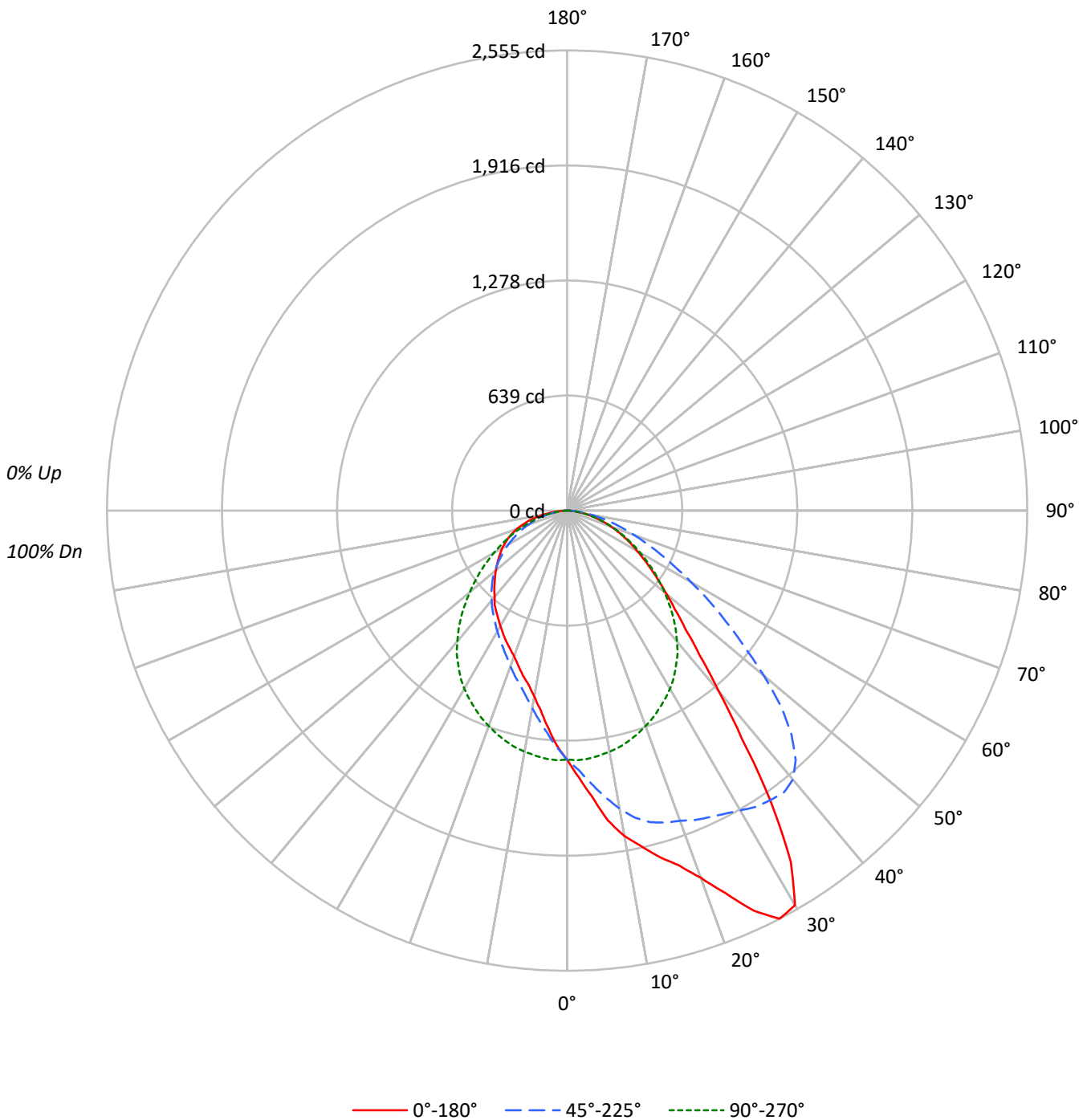
Lumens per Lamp: N/A
Luminaire Lumens: 3902.8 lumens
Efficiency: N/A
Efficacy: 95.0 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.23 / 1.53
Luminous Opening: Rectangular (W 3.88' x L: 0.39' x H: 0')
CIE Type: Direct

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°	9829	9829	9829	9829	9829
5°	11383	10843	9863	8870	8636
10°	13243	12125	9811	8037	7566
15°	14659	13178	9740	7386	6980
20°	16410	13861	9625	6957	6509
25°	19224	14726	9497	6597	6279
30°	20763	15773	9370	6355	6080
35°	17073	17036	9132	6188	5949
40°	12135	18092	8801	6051	5806
45°	9323	17706	8355	5929	5723
50°	7958	15753	7802	5783	5712
55°	7084	13376	7259	5571	5761
60°	6391	11298	6667	5373	5908
65°	5903	9625	6071	5104	6061
70°	5368	8185	5453	4757	6149
75°	4740	6997	4803	4385	6094
80°	3987	5742	3917	3725	5575
85°	3156	4167	2822	3066	4501

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 17706 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.1	3.4
10°-20°	396.5	10.2
20°-30°	644.0	16.5
30°-40°	787.0	20.2
40°-50°	714.0	18.3
50°-60°	568.7	14.6
60°-70°	396.1	10.1
70°-80°	211.0	5.4
80°-90°	52.3	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°	1173.6	30.1
0°-40°	1960.6	50.2
0°-60°	3243.4	83.1
0°-90°	3902.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3902.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1383	1383	1383	1383	1383	
5°	1596	1520	1382	1243	1210	160
15°	1992	1791	1324	1004	949	569
25°	2451	1878	1211	841	801	1123
35°	1968	1964	1052	713	686	1207
45°	928	1762	831	590	569	738
55°	572	1080	586	450	465	514
65°	351	572	361	304	360	348
75°	173	255	175	160	222	186
85°	39	51	35	38	55	45
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°	1383.0	1383.0	1383.0	1383.0	1383.0	1383.0	1383.0	1383.0	1383.0	1383.0	1383.0
2.5°	1482.8	1480.4	1478.1	1473.4	1476.9	1466.9	1462.2	1454.0	1444.0	1440.5	1436.4
5°	1595.5	1598.4	1601.4	1589.0	1590.2	1582.0	1563.2	1547.9	1535.6	1519.8	1508.6
7.5°	1735.2	1726.4	1727.0	1719.4	1705.9	1694.7	1676.5	1651.3	1628.4	1602.5	1580.2
10°	1835.0	1835.6	1830.3	1820.9	1806.2	1795.7	1769.8	1745.2	1715.2	1680.0	1654.8
12.5°	1910.1	1913.1	1906.0	1892.5	1887.2	1860.2	1841.5	1810.9	1773.9	1747.5	1705.9
15°	1992.3	1985.9	1981.2	1965.3	1953.0	1928.3	1896.0	1865.5	1826.8	1791.0	1755.2
17.5°	2065.1	2070.4	2062.8	2051.0	2014.6	1985.9	1945.9	1907.2	1860.8	1816.2	1774.5
20°	2169.6	2174.3	2160.8	2135.5	2089.8	2061.0	2004.1	1950.0	1894.3	1832.6	1785.7
22.5°	2299.9	2294.0	2274.7	2233.0	2194.8	2135.5	2072.7	2004.1	1930.7	1859.1	1792.7
25°	2451.4	2426.7	2415.5	2368.0	2315.8	2237.7	2153.2	2056.9	1970.0	1877.8	1798.0
27.5°	2554.7	2544.7	2528.8	2490.1	2430.2	2341.6	2241.8	2126.7	2009.9	1897.2	1796.8
30°	2530.0	2531.2	2532.4	2521.8	2486.6	2423.8	2324.6	2198.4	2052.8	1921.9	1800.9
32.5°	2311.6	2338.1	2363.3	2396.2	2417.3	2417.9	2365.1	2254.1	2103.3	1950.0	1798.6
35°	1967.7	1974.1	2040.4	2106.2	2195.4	2264.7	2311.1	2260.6	2134.4	1963.5	1796.8
37.5°	1590.8	1623.1	1673.0	1746.9	1880.8	1990.0	2133.2	2182.5	2123.2	1974.7	1796.3
40°	1307.9	1337.2	1367.1	1442.9	1551.5	1691.2	1859.6	2003.5	2036.9	1950.0	1778.6
42.5°	1089.5	1111.2	1145.3	1197.5	1283.8	1403.5	1562.6	1761.6	1897.8	1878.4	1741.7
45°	927.5	942.2	968.0	1013.2	1078.9	1175.8	1317.8	1523.3	1702.3	1761.6	1678.8
47.5°	812.4	813.0	834.1	866.4	916.3	1005.5	1111.8	1280.9	1474.0	1610.8	1591.4
50°	719.7	716.7	732.6	759.6	797.2	851.8	952.1	1080.7	1264.4	1424.7	1469.3
52.5°	639.8	641.0	649.2	667.4	697.4	742.0	810.7	923.4	1073.6	1239.2	1333.1
55°	571.7	569.4	580.6	594.1	616.9	647.5	701.5	790.1	917.5	1079.5	1188.7
57.5°	506.0	512.5	517.2	526.5	546.5	567.6	615.8	683.9	788.9	932.8	1048.4
60°	449.6	456.1	459.6	469.0	484.3	501.9	537.1	589.9	675.1	794.8	909.3
62.5°	399.2	403.9	404.5	412.7	424.4	441.4	467.3	509.5	572.3	673.3	784.8
65°	351.0	351.0	353.4	362.2	368.1	383.3	404.5	436.7	490.7	572.3	668.0
67.5°	304.1	307.0	306.4	310.5	315.8	328.7	344.6	371.6	414.4	476.1	555.3
70°	258.3	260.6	260.0	263.0	268.9	276.5	288.8	314.1	342.8	393.9	459.6
72.5°	217.2	217.8	216.0	220.1	223.1	229.5	243.6	254.2	280.6	321.7	372.8
75°	172.6	173.8	174.9	177.3	180.8	184.3	191.4	204.9	222.5	254.8	289.4
77.5°	137.4	134.4	137.9	137.4	139.1	142.1	148.5	156.1	171.4	193.1	221.9
80°	97.4	98.0	98.0	98.6	101.6	103.3	108.6	113.9	125.0	140.3	159.1
82.5°	64.6	66.3	65.2	66.3	68.7	69.9	72.2	76.3	81.6	92.7	105.1
85°	38.7	35.8	37.0	38.2	38.2	38.7	41.1	42.9	46.4	51.1	56.4
87.5°	14.1	15.3	15.8	15.8	16.4	16.4	18.8	18.8	20.5	22.3	24.7
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°	1383.0	1383.0	1383.0	1383.0	1383.0	1383.0	1383.0	1383.0	1383.0	1383.0	1383.0
2.5°	1432.9	1428.8	1424.1	1415.9	1405.9	1400.6	1392.4	1387.1	1376.5	1367.7	1358.3
5°	1495.1	1479.9	1465.8	1447.6	1427.6	1414.7	1399.4	1382.4	1364.8	1346.6	1326.6
7.5°	1557.3	1532.1	1504.5	1475.7	1447.6	1421.2	1396.5	1371.3	1348.4	1319.6	1295.5
10°	1620.1	1586.1	1549.7	1506.9	1465.2	1428.8	1391.8	1359.5	1326.6	1291.4	1260.3
12.5°	1683.0	1634.8	1579.6	1531.5	1479.3	1433.5	1388.3	1344.8	1301.4	1261.5	1223.9
15°	1705.9	1665.9	1618.4	1551.5	1495.1	1434.7	1377.1	1323.7	1273.8	1230.4	1184.6
17.5°	1728.2	1677.1	1626.6	1562.0	1488.7	1423.5	1358.3	1300.2	1245.0	1190.5	1148.8
20°	1733.4	1680.6	1627.2	1564.4	1488.7	1411.2	1346.0	1272.6	1212.2	1155.2	1101.2
22.5°	1731.7	1670.0	1610.8	1545.6	1472.2	1402.4	1320.2	1245.0	1178.1	1122.4	1065.4
25°	1718.8	1654.8	1582.0	1516.8	1444.0	1368.3	1288.5	1211.0	1144.1	1080.1	1024.3
27.5°	1711.1	1630.1	1550.3	1475.2	1405.3	1335.4	1258.0	1178.1	1104.8	1039.6	987.9
30°	1694.1	1603.1	1510.4	1431.1	1358.9	1291.4	1219.2	1141.7	1064.2	1000.9	944.5
32.5°	1678.8	1569.1	1469.9	1381.8	1304.3	1239.2	1174.0	1101.2	1025.5	960.9	904.6
35°	1658.3	1535.6	1423.5	1326.1	1244.5	1177.0	1121.2	1052.5	982.7	920.4	866.4
37.5°	1634.2	1492.2	1373.6	1272.1	1183.4	1113.0	1060.1	1006.7	936.9	875.8	827.7
40°	1604.9	1445.2	1317.8	1213.4	1120.6	1046.6	998.5	948.6	892.8	837.1	785.4
42.5°	1567.9	1403.0	1261.5	1147.0	1055.4	983.8	932.8	892.3	844.7	793.6	746.7
45°	1520.9	1350.1	1199.8	1078.9	986.2	915.1	862.9	831.2	794.2	744.9	704.4
47.5°	1458.7	1290.2	1135.3	1010.2	914.6	848.8	798.9	767.8	740.8	702.1	663.9
50°	1370.1	1221.6	1064.2	940.4	844.7	778.4	733.2	705.6	683.3	655.1	624.0
52.5°	1270.9	1135.3	994.4	872.3	777.8	712.6	668.6	645.1	627.5	609.3	578.8
55°	1164.6	1047.2	913.4	797.2	709.7	645.7	607.0	585.8	570.6	555.3	536.5
57.5°	1050.2	955.1	832.4	723.8	642.8	582.9	546.5	524.8	512.5	504.2	492.5
60°	928.1	849.4	747.3	650.4	571.7	520.1	484.9	469.0	459.0	452.6	444.4
62.5°	814.8	753.7	661.0	574.7	508.4	460.2	429.7	414.4	405.0	402.7	396.2
65°	703.8	653.9	575.9	502.5	443.8	402.1	375.7	361.0	355.1	351.6	352.2
67.5°	592.3	560.0	494.8	430.3	382.1	345.2	323.4	312.3	309.4	304.1	304.1
70°	491.9	469.0	416.2	361.6	319.9	292.9	274.1	262.4	259.5	257.1	256.5
72.5°	403.3	383.9	339.9	298.8	262.4	239.5	224.8	219.0	213.7	212.5	212.5
75°	316.4	305.2	268.9	234.2	208.4	192.0	181.4	174.9	171.4	170.8	171.4
77.5°	238.9	228.3	203.1	177.3	160.3	147.3	137.4	135.6	130.9	131.5	130.3
80°	169.1	162.6	147.9	128.6	115.1	104.5	99.8	95.7	94.5	92.7	94.5
82.5°	110.9	103.9	95.1	84.5	74.0	68.7	64.0	63.4	62.8	62.2	62.2
85°	60.5	61.0	55.2	45.8	41.1	37.6	34.6	34.6	34.0	33.5	34.0
87.5°	25.8	24.7	22.3	20.5	17.6	15.8	15.3	15.8	14.1	13.5	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°	1383.0	1383.0	1383.0	1383.0	1383.0	1383.0	1383.0	1383.0	1383.0	1383.0	1383.0
2.5°	1353.1	1346.6	1341.3	1329.6	1323.1	1314.3	1307.3	1314.9	1306.7	1310.2	1304.9
5°	1316.7	1300.2	1288.5	1271.5	1256.8	1243.3	1233.3	1231.5	1226.9	1224.5	1217.5
7.5°	1273.2	1254.4	1235.1	1213.9	1196.3	1177.5	1166.4	1155.8	1149.4	1141.1	1134.7
10°	1235.7	1208.1	1184.6	1157.6	1134.1	1113.6	1097.1	1088.9	1081.3	1070.1	1066.0
12.5°	1189.3	1160.5	1130.6	1101.2	1078.9	1055.4	1041.9	1028.4	1023.7	1010.8	1010.2
15°	1154.1	1111.2	1083.0	1053.7	1022.6	1003.8	992.0	978.5	972.7	963.9	957.4
17.5°	1110.6	1071.9	1036.7	1006.7	978.5	963.3	948.0	938.6	928.7	922.2	911.6
20°	1062.5	1026.1	990.9	958.6	938.0	919.8	908.1	899.3	888.7	885.8	875.2
22.5°	1022.0	980.9	947.4	921.6	898.7	877.6	864.7	859.4	852.9	842.4	842.4
25°	977.4	935.7	906.9	879.9	860.0	841.2	832.4	824.7	817.7	811.2	808.9
27.5°	939.8	902.8	867.6	842.9	825.9	808.3	800.7	790.7	785.4	780.1	773.1
30°	899.9	861.7	831.8	808.3	789.5	774.3	766.0	759.6	754.9	750.2	746.7
32.5°	858.8	824.2	795.4	772.5	753.7	743.2	736.1	732.0	726.7	720.8	716.2
35°	823.6	784.8	756.7	736.7	722.0	713.2	705.0	700.9	695.0	695.0	690.3
37.5°	781.9	747.9	722.6	704.4	691.5	683.3	673.9	671.5	667.4	665.1	663.3
40°	745.5	714.4	690.9	672.7	658.6	652.2	645.1	640.4	638.1	635.1	634.0
42.5°	707.9	678.6	656.3	639.8	628.1	622.8	616.4	613.4	608.1	604.0	603.4
45°	669.8	641.0	620.5	607.0	596.4	589.9	585.8	578.8	576.4	571.7	571.2
47.5°	634.6	606.4	585.8	574.7	565.3	560.6	554.1	546.5	543.6	540.6	540.0
50°	594.1	568.8	550.0	539.5	530.7	523.0	516.6	511.9	510.1	510.1	511.3
52.5°	553.0	532.4	517.2	503.7	495.4	487.2	481.3	479.0	476.1	479.6	481.9
55°	513.0	491.3	479.6	467.3	459.0	449.6	446.7	445.5	443.8	448.5	450.8
57.5°	470.2	455.5	441.4	428.5	421.5	415.6	410.9	410.3	413.8	415.0	422.1
60°	429.7	412.1	399.8	390.4	381.6	378.0	376.9	375.7	378.0	384.5	394.5
62.5°	385.1	371.6	358.1	351.6	345.7	339.3	339.3	340.5	345.7	353.4	363.4
65°	341.6	329.3	320.5	312.3	307.0	303.5	304.7	307.0	312.3	322.3	333.4
67.5°	297.0	288.8	280.6	273.0	267.7	268.3	268.9	271.8	278.2	290.0	300.5
70°	254.2	244.8	238.3	235.4	231.3	228.9	232.5	238.3	243.6	254.2	263.0
72.5°	211.3	203.7	199.0	197.2	196.1	194.3	194.9	201.3	209.0	219.5	230.1
75°	169.1	166.1	162.6	160.3	158.5	159.7	160.8	166.7	172.6	183.7	195.5
77.5°	130.9	127.4	125.0	124.4	123.3	123.9	126.8	131.5	137.4	145.6	155.0
80°	93.3	92.2	91.0	90.4	90.4	91.0	95.7	98.6	103.9	111.5	118.6
82.5°	61.6	61.0	61.0	61.0	61.6	61.6	64.0	68.1	72.2	77.5	83.4
85°	35.8	34.6	36.4	37.0	35.8	37.6	38.7	41.1	42.9	45.8	48.7
87.5°	14.7	15.8	15.3	15.8	15.8	17.0	16.4	18.8	20.0	21.1	20.5
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: P242804

CATALOG NUMBER: S125DRP-S1270D927-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1383.0	1383.0	1383.0	1383.0
2.5°	1301.4	1305.5	1302.0	1306.7
5°	1214.5	1209.2	1212.8	1210.4
7.5°	1134.1	1129.4	1122.4	1120.0
10°	1059.6	1053.1	1052.5	1048.4
12.5°	1005.0	999.1	990.9	989.7
15°	953.9	949.2	945.1	948.6
17.5°	910.5	906.3	905.2	901.6
20°	869.9	867.0	868.2	860.6
22.5°	837.7	831.2	830.0	830.0
25°	803.6	800.7	797.7	800.7
27.5°	773.7	770.7	769.6	770.2
30°	746.7	740.8	741.4	740.8
32.5°	717.3	713.8	712.6	711.5
35°	688.6	688.6	685.6	685.6
37.5°	662.1	661.6	659.8	661.0
40°	631.6	631.0	629.3	625.8
42.5°	602.3	599.9	599.3	598.8
45°	571.2	571.2	570.0	569.4
47.5°	540.6	541.8	544.2	543.6
50°	513.6	514.2	516.0	516.6
52.5°	483.7	487.8	490.2	489.6
55°	456.1	460.2	464.3	464.9
57.5°	428.5	433.8	437.9	439.1
60°	400.3	408.0	413.3	415.6
62.5°	373.3	382.1	387.4	387.4
65°	343.4	352.2	356.9	360.4
67.5°	312.3	321.1	325.8	328.7
70°	277.7	286.5	293.5	295.9
72.5°	243.6	251.2	256.5	259.5
75°	203.1	213.7	219.0	221.9
77.5°	164.4	174.9	177.9	179.6
80°	125.6	131.5	135.6	136.2
82.5°	89.2	93.9	94.5	96.3
85°	52.8	55.2	55.8	55.2
87.5°	21.7	21.1	21.1	22.3
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P242804
 CATALOG NUMBER: S125DRP-S1270D927-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	18.60	20.16	18.96	20.48	20.79	18.57	20.14	18.93	20.45	20.77
	3H	19.97	21.38	20.34	21.70	22.07	20.00	21.41	20.38	21.74	22.10
	4H	20.46	21.78	20.86	22.13	22.51	20.49	21.81	20.88	22.16	22.54
	6H	20.80	22.02	21.21	22.39	22.78	20.80	22.03	21.21	22.39	22.78
	8H	20.89	22.06	21.31	22.45	22.85	20.88	22.05	21.31	22.44	22.84
	12H	20.94	22.05	21.37	22.44	22.87	20.92	22.04	21.35	22.42	22.85
4H	2H	20.10	21.43	20.50	21.78	22.15	19.65	20.97	20.05	21.32	21.70
	3H	21.45	22.55	21.86	22.95	23.35	21.31	22.41	21.72	22.81	23.21
	4H	21.96	22.95	22.39	23.36	23.80	21.86	22.86	22.30	23.27	23.71
	6H	22.33	23.19	22.78	23.64	24.09	22.24	23.11	22.69	23.55	24.01
	8H	22.43	23.24	22.89	23.68	24.15	22.33	23.14	22.80	23.59	24.05
	12H	22.49	23.22	22.98	23.70	24.17	22.39	23.12	22.87	23.59	24.06
8H	4H	22.44	23.25	22.90	23.69	24.16	22.21	23.02	22.67	23.46	23.93
	6H	22.89	23.56	23.39	24.05	24.53	22.71	23.38	23.20	23.87	24.35
	8H	23.03	23.64	23.55	24.14	24.63	22.86	23.46	23.37	23.97	24.45
	12H	23.14	23.67	23.65	24.16	24.72	22.95	23.49	23.46	23.98	24.54
12H	4H	22.49	23.21	22.97	23.69	24.16	22.22	22.95	22.70	23.43	23.90
	6H	22.97	23.58	23.48	24.08	24.57	22.75	23.36	23.27	23.87	24.35
	8H	23.16	23.70	23.67	24.19	24.75	22.96	23.49	23.47	23.98	24.55