

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: P243689

Luminaire Tested: S125DRP-H1270D935-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P243689
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-H1270D935-X4F0-XX-UDD-A-W
Description: DEFINE 5 DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

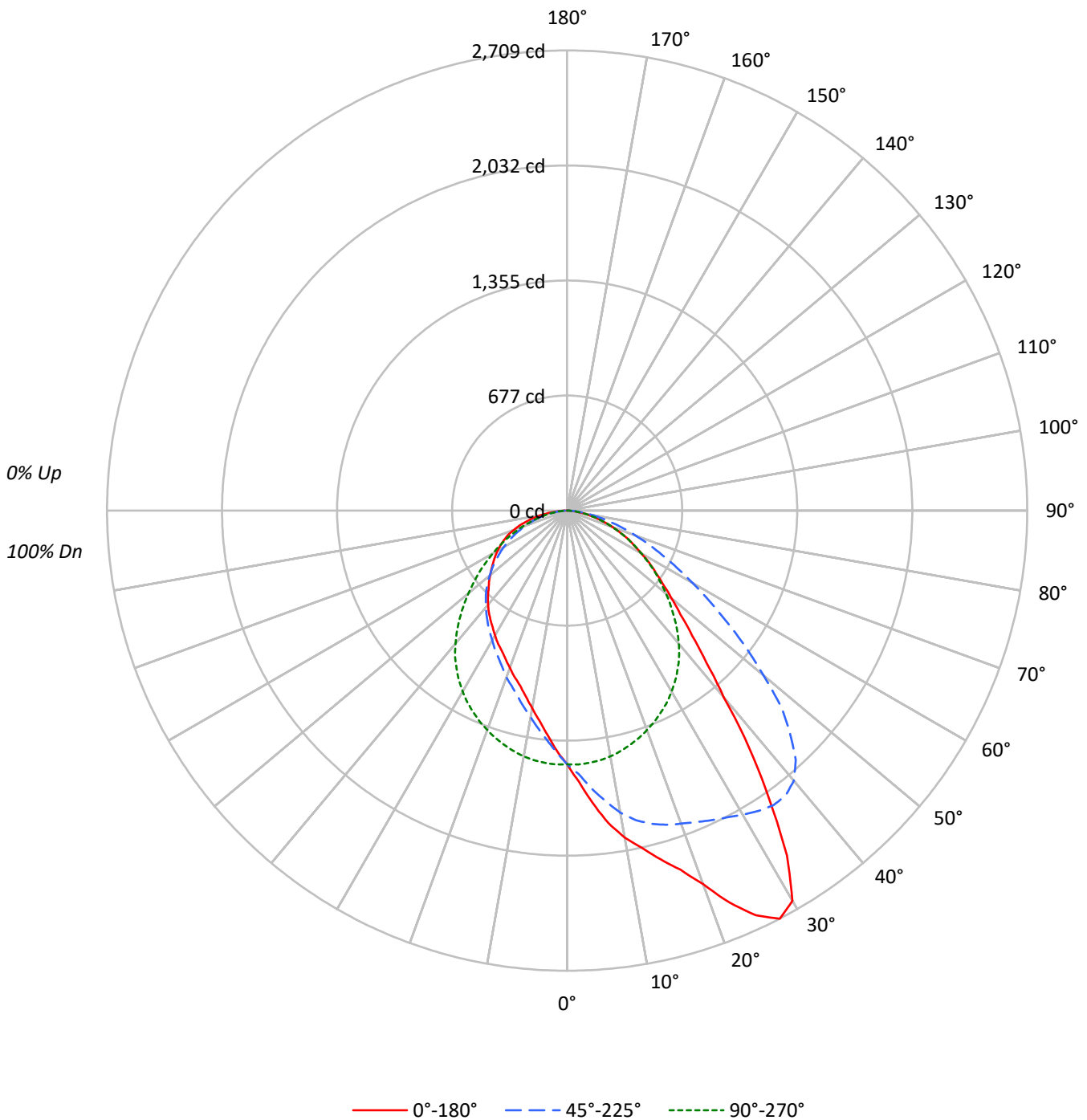
Lumens per Lamp: N/A
Luminaire Lumens: 4255.8 lumens
Efficiency: N/A
Efficacy: 112.9 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.22 / 1.53
Luminous Opening: Rectangular (W 3.88' x L: 0.39' x H: 0')
CIE Type: Direct

Input Watts (W): 37.7
Input Voltage (V): 120
Input Current (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	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°	10613	10613	10613	10613	10613
5°	12330	11708	10636	9677	9452
10°	14106	13036	10602	8911	8530
15°	15639	14044	10506	8309	7859
20°	17706	14834	10401	7905	7456
25°	20618	15770	10266	7498	7142
30°	21766	16961	10098	7246	6967
35°	17999	18372	9851	7061	6820
40°	13315	19258	9494	6910	6719
45°	10468	18660	8977	6774	6574
50°	8864	16665	8396	6588	6548
55°	7893	14278	7819	6378	6572
60°	7161	12102	7178	6119	6714
65°	6640	10346	6579	5804	6904
70°	5964	8846	5889	5424	6945
75°	5088	7483	5171	4954	6851
80°	4163	6045	4236	4314	6393
85°	2862	4249	3009	3409	5431

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 18660 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.2	3.4
10°-20°	431.0	10.1
20°-30°	700.8	16.5
30°-40°	852.6	20.0
40°-50°	780.1	18.3
50°-60°	624.3	14.7
60°-70°	434.8	10.2
70°-80°	231.1	5.4
80°-90°	56.7	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°	1276.0	30.0
0°-40°	2128.6	50.0
0°-60°	3533.1	83.0
0°-90°	4255.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4255.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1493	1493	1493	1493	1493	
5°	1728	1641	1491	1356	1325	172
15°	2125	1909	1428	1129	1068	610
25°	2629	2011	1309	956	911	1200
35°	2074	2118	1135	814	786	1286
45°	1042	1856	893	674	654	821
55°	637	1152	631	515	530	575
65°	395	615	391	345	410	389
75°	185	272	188	180	250	200
85°	35	52	37	42	67	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°	1493.2	1493.2	1493.2	1493.2	1493.2	1493.2	1493.2	1493.2	1493.2	1493.2	1493.2
2.5°	1598.6	1591.9	1590.1	1590.7	1587.1	1584.1	1576.8	1567.1	1560.4	1552.0	1549.5
5°	1728.2	1711.8	1714.8	1710.0	1702.1	1691.8	1682.8	1668.2	1654.3	1641.0	1623.4
7.5°	1855.3	1852.3	1843.8	1842.6	1829.9	1812.3	1794.2	1774.2	1744.5	1723.9	1700.3
10°	1954.6	1960.7	1948.6	1949.2	1926.8	1909.2	1893.5	1867.4	1834.1	1806.3	1771.8
12.5°	2034.6	2037.0	2035.2	2027.3	2012.8	1983.1	1968.0	1940.7	1904.4	1866.2	1839.6
15°	2125.4	2118.7	2108.4	2098.7	2077.6	2056.4	2024.9	1992.8	1946.8	1908.6	1869.9
17.5°	2216.2	2215.0	2202.3	2181.7	2155.1	2127.2	2080.0	2038.8	1989.8	1939.5	1891.1
20°	2341.0	2334.3	2315.5	2291.9	2242.9	2203.5	2144.8	2088.5	2024.3	1961.3	1905.0
22.5°	2497.2	2475.4	2456.6	2420.3	2364.0	2295.5	2229.5	2147.8	2058.2	1984.3	1914.1
25°	2629.2	2619.5	2599.5	2558.9	2494.8	2412.4	2314.3	2221.7	2109.0	2010.9	1919.5
27.5°	2709.1	2704.9	2692.8	2654.6	2601.3	2519.6	2414.8	2296.8	2169.0	2036.4	1926.8
30°	2652.2	2652.8	2659.5	2655.2	2631.6	2578.9	2485.7	2367.0	2219.2	2066.7	1928.6
32.5°	2407.6	2423.9	2476.0	2500.8	2534.1	2545.0	2503.2	2404.5	2261.6	2096.9	1934.7
35°	2074.5	2114.5	2149.6	2222.3	2308.9	2379.7	2420.9	2388.8	2279.2	2117.5	1937.7
37.5°	1760.9	1757.8	1812.3	1891.1	1983.1	2103.6	2220.5	2284.6	2248.9	2113.3	1932.2
40°	1435.1	1462.9	1496.9	1566.5	1674.3	1822.6	1961.9	2099.4	2149.0	2075.7	1911.0
42.5°	1212.3	1225.0	1258.9	1313.4	1390.9	1542.3	1679.7	1856.5	1983.7	1992.2	1864.4
45°	1041.5	1055.4	1065.1	1119.0	1191.1	1292.8	1433.9	1611.9	1782.7	1856.5	1788.7
47.5°	904.7	912.5	933.7	966.4	1013.6	1103.9	1216.5	1378.2	1564.1	1707.6	1684.6
50°	801.7	807.8	824.7	842.9	881.6	948.3	1039.1	1171.7	1350.3	1507.2	1558.6
52.5°	710.9	718.8	727.2	744.8	780.5	825.3	899.2	1002.7	1168.7	1329.1	1410.9
55°	637.0	640.0	649.1	662.4	689.7	723.6	782.3	876.2	992.5	1152.3	1264.9
57.5°	572.8	569.8	579.5	588.6	606.7	635.2	677.6	747.2	858.0	994.3	1111.7
60°	503.8	506.8	514.1	521.4	534.1	558.9	592.2	647.9	729.1	851.4	971.3
62.5°	444.5	446.9	448.7	459.0	470.5	488.1	515.3	560.7	627.9	729.1	836.2
65°	394.8	390.6	393.0	400.3	409.3	423.9	449.3	482.6	532.9	615.2	704.2
67.5°	336.7	337.9	338.5	342.7	350.6	364.5	382.7	409.9	451.1	515.9	594.0
70°	287.0	287.6	288.2	291.9	298.5	306.4	319.1	340.3	375.4	425.7	486.8
72.5°	236.2	238.6	238.6	241.6	246.4	250.7	262.8	280.4	307.0	347.0	398.4
75°	185.3	189.5	190.7	194.4	198.6	199.8	208.9	222.8	239.8	272.5	313.1
77.5°	144.1	144.1	146.5	150.8	150.8	154.4	164.1	170.2	183.5	205.9	236.8
80°	101.7	103.5	103.5	104.8	107.2	110.2	114.4	119.9	131.4	147.7	164.1
82.5°	66.6	67.2	67.8	70.8	69.6	72.7	74.5	81.1	86.6	94.5	104.8
85°	35.1	35.1	35.7	37.5	39.4	40.0	41.2	44.2	48.4	52.1	58.1
87.5°	14.5	13.9	13.9	15.1	15.1	15.7	16.3	17.6	20.0	20.0	22.4
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°	1493.2	1493.2	1493.2	1493.2	1493.2	1493.2	1493.2	1493.2	1493.2	1493.2	1493.2
2.5°	1547.7	1542.9	1534.4	1527.1	1518.0	1511.4	1504.7	1496.3	1487.8	1478.7	1469.0
5°	1609.5	1595.0	1578.6	1562.3	1542.9	1527.1	1510.2	1490.8	1474.5	1456.3	1436.9
7.5°	1680.3	1654.9	1626.4	1594.3	1564.1	1536.8	1509.0	1482.3	1458.1	1430.9	1404.2
10°	1748.8	1704.6	1668.8	1625.2	1582.2	1542.3	1504.1	1469.0	1433.9	1400.0	1367.3
12.5°	1795.4	1745.1	1700.3	1650.1	1599.8	1549.5	1499.3	1450.8	1409.1	1367.9	1333.4
15°	1827.5	1792.4	1733.0	1672.5	1606.5	1541.1	1484.1	1427.8	1378.2	1330.3	1289.2
17.5°	1847.5	1802.0	1743.9	1680.3	1607.7	1539.2	1470.8	1403.6	1346.7	1295.2	1248.6
20°	1852.9	1799.6	1739.1	1673.1	1600.4	1525.3	1448.4	1375.1	1313.4	1254.6	1207.4
22.5°	1847.5	1785.7	1720.9	1656.7	1580.4	1504.1	1423.6	1343.7	1272.8	1212.3	1162.6
25°	1838.4	1763.9	1696.1	1620.4	1549.5	1476.9	1393.9	1309.1	1235.3	1172.3	1116.6
27.5°	1826.9	1741.5	1657.9	1583.4	1506.5	1435.1	1358.8	1272.2	1195.3	1126.3	1074.2
30°	1813.5	1711.8	1619.2	1530.8	1458.1	1386.7	1312.2	1230.4	1152.9	1086.9	1030.6
32.5°	1798.4	1680.3	1571.3	1476.3	1398.8	1332.8	1263.1	1185.0	1108.7	1037.9	988.8
35°	1777.2	1637.3	1519.9	1416.9	1336.4	1264.9	1203.8	1135.4	1059.7	993.7	942.8
37.5°	1752.4	1599.2	1467.8	1356.4	1268.6	1195.3	1139.0	1083.3	1012.4	948.9	899.8
40°	1719.1	1553.2	1412.7	1292.2	1198.3	1126.3	1071.2	1023.3	964.6	900.4	856.2
42.5°	1675.5	1502.3	1350.3	1221.9	1131.1	1054.2	1002.7	959.2	908.9	853.2	809.6
45°	1625.8	1444.2	1280.7	1154.7	1056.0	982.8	932.5	893.1	855.0	805.3	764.8
47.5°	1548.3	1375.8	1217.7	1078.4	981.6	910.7	863.5	825.9	797.5	758.1	718.2
50°	1456.3	1298.2	1143.2	1003.4	905.3	836.8	792.0	759.3	735.1	704.8	674.6
52.5°	1355.2	1211.0	1061.5	930.7	832.6	767.8	720.6	691.5	675.8	651.5	627.9
55°	1237.1	1113.0	973.7	854.4	758.1	692.1	651.5	631.0	613.4	601.3	580.1
57.5°	1118.4	1013.6	889.5	771.4	683.0	624.3	588.0	565.0	552.2	543.8	528.6
60°	988.8	906.5	792.6	690.3	611.6	555.9	523.8	505.0	493.5	488.7	478.4
62.5°	865.3	802.3	698.8	613.4	543.2	494.1	462.0	446.9	439.6	434.2	428.1
65°	743.6	693.9	612.2	532.3	472.9	428.7	403.3	391.2	385.7	379.7	379.1
67.5°	634.0	588.6	523.2	457.8	408.1	370.6	348.2	336.1	330.0	330.6	327.6
70°	526.2	491.1	437.8	384.5	342.1	312.5	291.3	283.4	281.0	280.4	277.9
72.5°	425.7	405.7	359.1	314.3	281.0	258.0	241.0	234.3	231.3	230.1	230.1
75°	337.3	322.7	282.8	248.9	223.4	204.7	193.2	188.3	184.1	186.5	184.7
77.5°	253.1	241.0	213.8	189.5	170.2	154.4	149.0	144.7	142.3	141.7	144.1
80°	178.0	170.8	153.8	134.4	119.9	110.8	107.2	103.5	101.7	100.5	101.7
82.5°	114.4	110.2	98.1	86.6	78.1	73.3	69.6	67.8	64.8	65.4	66.6
85°	62.4	61.2	53.3	49.7	41.8	41.2	38.8	36.9	37.5	36.3	38.1
87.5°	25.4	24.2	22.4	20.6	18.2	16.3	15.1	16.3	14.5	16.3	15.7
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1493.2	1493.2	1493.2	1493.2	1493.2	1493.2	1493.2	1493.2	1493.2	1493.2	1493.2
2.5°	1464.2	1457.5	1449.6	1442.4	1431.5	1424.2	1420.6	1421.8	1417.5	1416.3	1415.7
5°	1425.4	1410.3	1395.7	1383.6	1370.9	1356.4	1346.1	1343.1	1341.8	1338.8	1332.2
7.5°	1385.4	1366.1	1347.3	1329.7	1311.6	1294.6	1284.3	1275.8	1271.0	1262.5	1260.7
10°	1343.1	1319.4	1299.5	1274.0	1252.2	1234.7	1221.3	1214.1	1209.8	1202.0	1195.3
12.5°	1302.5	1277.7	1246.8	1223.8	1200.8	1182.6	1167.5	1155.3	1152.3	1142.0	1136.6
15°	1258.9	1228.6	1200.8	1174.1	1152.3	1129.3	1120.2	1109.3	1098.4	1089.3	1087.5
17.5°	1217.1	1180.8	1153.5	1127.5	1100.8	1083.9	1071.8	1064.5	1056.0	1051.2	1042.7
20°	1166.8	1137.2	1106.9	1082.7	1059.7	1045.1	1028.8	1022.1	1016.1	1004.6	1000.9
22.5°	1124.5	1088.7	1063.3	1039.1	1018.5	997.9	986.4	979.7	970.7	964.6	959.8
25°	1080.3	1050.6	1018.5	994.3	976.7	956.1	948.3	939.8	931.9	926.5	921.6
27.5°	1037.3	1004.6	978.5	954.3	936.1	921.6	910.7	901.6	896.2	891.9	888.9
30°	992.5	962.2	938.0	915.6	895.0	882.9	872.6	868.9	862.9	859.8	855.0
32.5°	951.9	921.0	898.0	878.6	860.5	848.3	842.3	836.8	830.8	825.3	824.7
35°	905.9	879.2	858.0	836.8	823.5	813.8	807.2	801.7	796.9	792.6	790.2
37.5°	865.3	839.9	816.2	801.1	786.6	778.1	770.8	769.0	764.2	764.8	761.1
40°	821.7	798.7	778.7	763.6	753.9	744.8	740.0	733.9	730.9	731.5	728.4
42.5°	779.3	758.1	740.0	726.0	715.7	709.1	704.8	700.0	696.4	693.9	693.3
45°	736.3	717.5	702.4	688.5	680.0	673.9	668.5	662.4	659.4	658.2	657.6
47.5°	693.9	677.0	660.6	650.9	643.1	637.6	632.2	627.3	624.9	623.1	620.1
50°	650.3	633.4	621.9	609.8	603.1	595.8	589.8	587.4	584.3	583.7	586.8
52.5°	604.9	591.6	581.3	571.6	563.7	555.9	549.8	546.8	548.6	548.6	552.2
55°	561.9	548.0	538.3	530.4	522.0	514.7	508.6	508.6	508.6	512.3	517.1
57.5°	514.1	502.0	494.7	485.6	477.8	472.9	468.7	468.1	470.5	476.5	482.0
60°	465.6	457.2	449.3	442.0	434.2	430.5	429.9	428.7	432.3	438.4	449.9
62.5°	417.8	412.4	402.7	399.0	392.4	388.1	388.1	389.4	394.8	404.5	414.8
65°	371.8	363.9	356.7	353.0	348.8	345.1	345.1	350.0	357.9	366.9	379.7
67.5°	324.6	317.9	313.1	309.4	304.6	302.8	304.6	310.0	319.7	328.8	342.1
70°	273.7	272.5	268.2	263.4	261.0	261.0	262.8	268.9	276.1	290.0	301.6
72.5°	227.1	227.1	224.6	221.6	219.8	221.6	222.8	228.9	238.0	250.1	262.8
75°	184.7	182.9	181.1	179.8	179.2	180.4	182.3	187.1	198.0	209.5	219.8
77.5°	142.9	141.7	139.9	141.1	141.1	141.7	147.1	152.6	158.6	167.7	178.6
80°	102.9	103.5	101.7	101.1	104.2	105.4	109.6	113.8	118.1	128.4	136.2
82.5°	67.8	69.0	68.4	69.6	70.8	70.8	75.7	79.9	83.6	90.8	96.9
85°	38.8	39.4	39.4	41.2	42.4	41.8	46.0	48.4	50.3	55.7	59.3
87.5°	17.0	17.6	18.2	18.2	18.2	20.6	21.2	22.4	23.0	24.2	26.0
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: P243689

CATALOG NUMBER: S125DRP-H1270D935-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1493.2	1493.2	1493.2	1493.2
2.5°	1410.3	1409.7	1412.7	1414.5
5°	1327.9	1326.1	1323.7	1324.9
7.5°	1254.6	1249.8	1248.6	1248.6
10°	1189.9	1185.0	1183.8	1182.0
12.5°	1134.8	1127.5	1124.5	1121.4
15°	1082.7	1081.5	1074.8	1068.1
17.5°	1034.8	1036.7	1030.0	1027.0
20°	994.9	989.4	987.0	985.8
22.5°	954.3	950.1	950.1	945.8
25°	918.0	914.3	914.9	910.7
27.5°	884.1	883.5	882.9	881.6
30°	852.6	850.2	847.7	848.9
32.5°	822.3	818.7	816.9	816.2
35°	790.8	789.6	787.2	786.0
37.5°	759.9	760.5	757.5	756.9
40°	726.6	726.0	725.4	724.2
42.5°	691.5	689.7	690.9	690.3
45°	656.4	654.6	655.8	654.0
47.5°	621.9	623.1	623.1	623.7
50°	588.0	590.4	590.4	592.2
52.5°	556.5	561.3	561.3	560.7
55°	522.6	528.0	529.8	530.4
57.5°	490.5	495.9	501.4	502.6
60°	456.0	465.6	471.1	472.3
62.5°	425.1	434.2	441.4	442.0
65°	390.6	401.5	408.1	410.5
67.5°	355.4	363.9	373.0	376.6
70°	315.5	325.8	331.8	334.2
72.5°	273.7	285.2	293.1	294.3
75°	233.7	242.2	248.3	249.5
77.5°	188.3	196.8	202.2	203.5
80°	142.9	150.2	153.8	156.2
82.5°	101.1	106.0	107.8	110.2
85°	62.4	66.0	66.6	66.6
87.5°	27.2	27.9	27.9	29.1
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P243689
 CATALOG NUMBER: S125DRP-H1270D935-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	19.04	20.61	19.41	20.93	21.24	18.78	20.35	19.15	20.67	20.98
	3H	20.40	21.81	20.77	22.14	22.50	20.21	21.62	20.59	21.95	22.31
	4H	20.88	22.20	21.27	22.55	22.93	20.70	22.02	21.09	22.37	22.75
	6H	21.18	22.41	21.60	22.78	23.17	21.01	22.24	21.42	22.61	23.00
	8H	21.26	22.43	21.69	22.82	23.22	21.09	22.26	21.52	22.65	23.05
	12H	21.29	22.41	21.72	22.80	23.23	21.13	22.25	21.56	22.63	23.06
4H	2H	20.43	21.76	20.83	22.11	22.48	19.85	21.17	20.25	21.52	21.90
	3H	21.79	22.90	22.20	23.29	23.69	21.50	22.61	21.91	23.01	23.41
	4H	22.29	23.29	22.72	23.70	24.14	22.06	23.06	22.50	23.47	23.91
	6H	22.65	23.51	23.10	23.96	24.41	22.44	23.31	22.90	23.75	24.21
	8H	22.74	23.55	23.20	23.99	24.46	22.54	23.35	23.00	23.79	24.26
	12H	22.79	23.51	23.27	23.99	24.46	22.59	23.32	23.07	23.80	24.27
8H	4H	22.75	23.56	23.21	24.00	24.47	22.42	23.23	22.88	23.67	24.14
	6H	23.18	23.85	23.67	24.34	24.82	22.92	23.59	23.41	24.08	24.56
	8H	23.30	23.91	23.82	24.42	24.90	23.06	23.67	23.58	24.18	24.66
	12H	23.39	23.92	23.90	24.42	24.98	23.16	23.70	23.67	24.19	24.75
12H	4H	22.79	23.52	23.27	23.99	24.46	22.44	23.16	22.92	23.64	24.11
	6H	23.25	23.85	23.76	24.36	24.85	22.97	23.57	23.48	24.08	24.57
	8H	23.42	23.96	23.93	24.45	25.01	23.17	23.70	23.68	24.19	24.76