

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: P242829

Luminaire Tested: S125DRP-S1270D935-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P242829
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-S1270D935-X4F0-XX-UDD-A-W
Description: DEFINE 5 DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

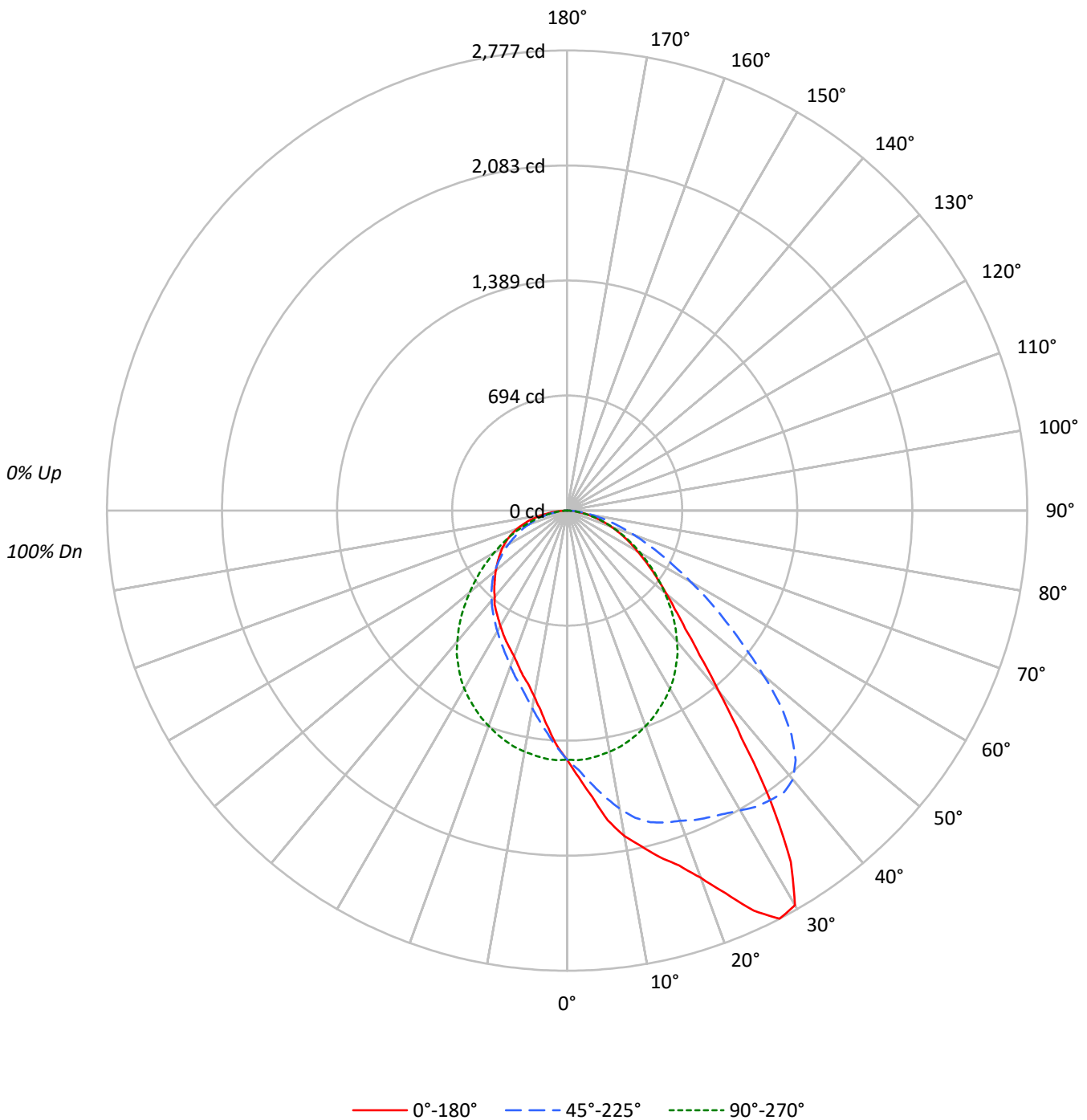
Lumens per Lamp: N/A
Luminaire Lumens: 4241.8 lumens
Efficiency: N/A
Efficacy: 103.2 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.23 / 1.53
Luminous Opening: Rectangular (W 3.88' x L: 0.39' x H: 0')
CIE Type: Direct

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°	10683	10683	10683	10683	10683
5°	12372	11785	10720	9641	9386
10°	14394	13178	10664	8735	8224
15°	15933	14323	10586	8028	7586
20°	17835	15065	10462	7562	7074
25°	20894	16006	10322	7170	6824
30°	22567	17142	10184	6906	6608
35°	18555	18516	9925	6726	6466
40°	13189	19665	9566	6576	6310
45°	10132	19245	9080	6445	6221
50°	8649	17121	8480	6286	6207
55°	7700	14539	7890	6056	6261
60°	6947	12280	7247	5841	6421
65°	6416	10462	6599	5546	6587
70°	5833	8896	5927	5170	6683
75°	5152	7604	5220	4764	6624
80°	4334	6242	4257	4048	6058
85°	3433	4526	3066	3327	4893

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 19245 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.7	3.4
10°-20°	430.9	10.2
20°-30°	700.0	16.5
30°-40°	855.4	20.2
40°-50°	776.1	18.3
50°-60°	618.1	14.6
60°-70°	430.5	10.1
70°-80°	229.3	5.4
80°-90°	56.9	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°	1275.6	30.1
0°-40°	2131.0	50.2
0°-60°	3525.1	83.1
0°-90°	4241.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4241.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1503	1503	1503	1503	1503	
5°	1734	1652	1502	1351	1316	174
15°	2165	1947	1439	1091	1031	619
25°	2664	2041	1316	914	870	1221
35°	2139	2134	1144	775	745	1312
45°	1008	1915	903	641	619	802
55°	621	1173	637	489	505	559
65°	382	622	392	330	392	378
75°	188	277	190	174	241	202
85°	42	56	38	41	60	49
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°	1503.1	1503.1	1503.1	1503.1	1503.1	1503.1	1503.1	1503.1	1503.1	1503.1	1503.1
2.5°	1611.6	1609.0	1606.5	1601.4	1605.2	1594.4	1589.3	1580.3	1569.5	1565.7	1561.2
5°	1734.1	1737.3	1740.5	1727.1	1728.4	1719.4	1699.0	1682.4	1669.0	1651.8	1639.7
7.5°	1885.9	1876.4	1877.0	1868.7	1854.0	1841.9	1822.1	1794.7	1769.8	1741.8	1717.5
10°	1994.4	1995.0	1989.3	1979.1	1963.1	1951.7	1923.6	1896.8	1864.2	1826.0	1798.5
12.5°	2076.1	2079.3	2071.6	2056.9	2051.2	2021.8	2001.4	1968.2	1928.0	1899.3	1854.0
15°	2165.4	2158.4	2153.3	2136.0	2122.6	2095.8	2060.8	2027.6	1985.5	1946.6	1907.6
17.5°	2244.5	2250.2	2241.9	2229.2	2189.6	2158.4	2115.0	2072.9	2022.5	1974.0	1928.7
20°	2358.1	2363.2	2348.5	2321.1	2271.3	2240.0	2178.1	2119.5	2058.8	1991.8	1940.8
22.5°	2499.7	2493.3	2472.3	2427.0	2385.5	2321.1	2252.8	2178.1	2098.4	2020.6	1948.5
25°	2664.3	2637.5	2625.4	2573.7	2516.9	2432.1	2340.2	2235.6	2141.1	2041.0	1954.2
27.5°	2776.6	2765.7	2748.5	2706.4	2641.3	2545.0	2436.5	2311.5	2184.5	2062.0	1952.9
30°	2749.8	2751.1	2752.4	2740.9	2702.6	2634.3	2526.5	2389.3	2231.1	2088.8	1957.4
32.5°	2512.5	2541.2	2568.6	2604.3	2627.3	2627.9	2570.5	2449.9	2286.0	2119.5	1954.8
35°	2138.6	2145.6	2217.7	2289.2	2386.1	2461.4	2511.8	2457.0	2319.8	2134.1	1952.9
37.5°	1729.0	1764.1	1818.3	1898.7	2044.2	2162.8	2318.5	2372.1	2307.7	2146.2	1952.3
40°	1421.5	1453.4	1485.9	1568.2	1686.2	1838.1	2021.2	2177.5	2213.9	2119.5	1933.2
42.5°	1184.1	1207.7	1244.7	1301.5	1395.3	1525.5	1698.4	1914.7	2062.7	2041.6	1893.0
45°	1008.0	1024.0	1052.1	1101.2	1172.7	1277.9	1432.3	1655.6	1850.2	1914.7	1824.7
47.5°	883.0	883.6	906.6	941.7	995.9	1092.9	1208.4	1392.1	1602.0	1750.7	1729.6
50°	782.2	779.0	796.2	825.6	866.4	925.7	1034.8	1174.6	1374.3	1548.4	1596.9
52.5°	695.4	696.7	705.6	725.4	757.9	806.4	881.1	1003.6	1166.9	1346.8	1448.9
55°	621.4	618.9	631.0	645.7	670.5	703.7	762.4	858.8	997.2	1173.3	1292.0
57.5°	550.0	557.0	562.1	572.3	594.0	617.0	669.3	743.3	857.5	1013.8	1139.5
60°	488.7	495.7	499.6	509.8	526.4	545.5	583.8	641.2	733.7	863.9	988.3
62.5°	433.8	438.9	439.6	448.5	461.3	479.8	507.9	553.8	622.1	731.8	853.0
65°	381.5	381.5	384.1	393.6	400.0	416.6	439.6	474.7	533.4	622.1	726.0
67.5°	330.5	333.7	333.0	337.5	343.2	357.3	374.5	403.9	450.4	517.4	603.6
70°	280.7	283.3	282.6	285.8	292.2	300.5	313.9	341.3	372.6	428.1	499.6
72.5°	236.1	236.7	234.8	239.3	242.4	249.5	264.8	276.3	305.0	349.6	405.1
75°	187.6	188.8	190.1	192.7	196.5	200.3	208.0	222.7	241.8	276.9	314.5
77.5°	149.3	146.1	149.9	149.3	151.2	154.4	161.4	169.7	186.3	209.9	241.2
80°	105.9	106.5	106.5	107.2	110.4	112.3	118.0	123.8	135.9	152.5	172.9
82.5°	70.2	72.1	70.8	72.1	74.6	75.9	78.5	82.9	88.7	100.8	114.2
85°	42.1	38.9	40.2	41.5	41.5	42.1	44.7	46.6	50.4	55.5	61.2
87.5°	15.3	16.6	17.2	17.2	17.9	17.9	20.4	20.4	22.3	24.2	26.8
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°	1503.1	1503.1	1503.1	1503.1	1503.1	1503.1	1503.1	1503.1	1503.1	1503.1	1503.1
2.5°	1557.4	1552.9	1547.8	1538.9	1528.0	1522.3	1513.3	1507.6	1496.1	1486.6	1476.3
5°	1625.0	1608.4	1593.1	1573.3	1551.6	1537.6	1521.0	1502.5	1483.4	1463.6	1441.9
7.5°	1692.6	1665.2	1635.2	1603.9	1573.3	1544.6	1517.8	1490.4	1465.5	1434.2	1408.1
10°	1760.9	1723.9	1684.3	1637.8	1592.5	1552.9	1512.7	1477.6	1441.9	1403.6	1369.8
12.5°	1829.2	1776.8	1716.9	1664.6	1607.8	1558.0	1508.9	1461.7	1414.5	1371.1	1330.2
15°	1854.0	1810.7	1759.0	1686.2	1625.0	1559.3	1496.8	1438.7	1384.5	1337.3	1287.5
17.5°	1878.3	1822.8	1767.9	1697.7	1618.0	1547.2	1476.3	1413.2	1353.2	1293.9	1248.6
20°	1884.0	1826.6	1768.5	1700.3	1618.0	1533.8	1462.9	1383.2	1317.5	1255.6	1196.9
22.5°	1882.1	1815.1	1750.7	1679.9	1600.1	1524.2	1434.9	1353.2	1280.5	1219.9	1158.0
25°	1868.1	1798.5	1719.4	1648.6	1569.5	1487.2	1400.4	1316.2	1243.5	1173.9	1113.3
27.5°	1859.8	1771.7	1685.0	1603.3	1527.4	1451.5	1367.2	1280.5	1200.7	1129.9	1073.8
30°	1841.3	1742.4	1641.6	1555.5	1477.0	1403.6	1325.1	1240.9	1156.7	1087.8	1026.5
32.5°	1824.7	1705.4	1597.6	1501.9	1417.6	1346.8	1276.0	1196.9	1114.6	1044.4	983.2
35°	1802.4	1669.0	1547.2	1441.3	1352.6	1279.2	1218.6	1143.9	1068.0	1000.4	941.7
37.5°	1776.2	1621.8	1492.9	1382.6	1286.2	1209.7	1152.2	1094.2	1018.3	951.9	899.6
40°	1744.3	1570.8	1432.3	1318.8	1218.0	1137.6	1085.2	1031.0	970.4	909.8	853.6
42.5°	1704.1	1524.8	1371.1	1246.7	1147.1	1069.3	1013.8	969.8	918.1	862.6	811.5
45°	1653.1	1467.4	1304.1	1172.7	1071.8	994.6	937.9	903.4	863.2	809.6	765.6
47.5°	1585.4	1402.3	1233.9	1098.0	994.0	922.6	868.3	834.5	805.2	763.1	721.6
50°	1489.1	1327.7	1156.7	1022.1	918.1	846.0	796.9	766.9	742.6	712.0	678.2
52.5°	1381.3	1233.9	1080.8	948.1	845.4	774.5	726.7	701.2	682.0	662.2	629.1
55°	1265.8	1138.2	992.7	866.4	771.3	701.8	659.7	636.7	620.1	603.6	583.1
57.5°	1141.4	1038.0	904.7	786.7	698.6	633.5	594.0	570.4	557.0	548.0	535.3
60°	1008.7	923.2	812.2	706.9	621.4	565.3	527.0	509.8	498.9	491.9	483.0
62.5°	885.6	819.2	718.4	624.6	552.5	500.2	467.0	450.4	440.2	437.7	430.7
65°	765.0	710.7	625.9	546.1	482.3	437.0	408.3	392.4	386.0	382.2	382.8
67.5°	643.7	608.7	537.8	467.7	415.3	375.1	351.5	339.4	336.2	330.5	330.5
70°	534.6	509.8	452.3	393.0	347.7	318.4	297.9	285.2	282.0	279.4	278.8
72.5°	438.3	417.3	369.4	324.7	285.2	260.3	244.4	238.0	232.2	231.0	231.0
75°	343.9	331.8	292.2	254.6	226.5	208.6	197.1	190.1	186.3	185.7	186.3
77.5°	259.7	248.2	220.7	192.7	174.2	160.1	149.3	147.4	142.3	142.9	141.6
80°	183.7	176.7	160.8	139.7	125.0	113.6	108.5	104.0	102.7	100.8	102.7
82.5°	120.6	112.9	103.4	91.9	80.4	74.6	69.5	68.9	68.3	67.6	67.6
85°	65.7	66.4	60.0	49.8	44.7	40.8	37.6	37.6	37.0	36.4	37.0
87.5°	28.1	26.8	24.2	22.3	19.1	17.2	16.6	17.2	15.3	14.7	15.3
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1503.1	1503.1	1503.1	1503.1	1503.1	1503.1	1503.1	1503.1	1503.1	1503.1	1503.1
2.5°	1470.6	1463.6	1457.8	1445.1	1438.1	1428.5	1420.8	1429.1	1420.2	1424.0	1418.3
5°	1431.0	1413.2	1400.4	1381.9	1366.0	1351.3	1340.4	1338.5	1333.4	1330.9	1323.2
7.5°	1383.8	1363.4	1342.4	1319.4	1300.3	1279.8	1267.7	1256.2	1249.2	1240.3	1233.3
10°	1343.0	1313.0	1287.5	1258.1	1232.6	1210.3	1192.4	1183.5	1175.2	1163.1	1158.6
12.5°	1292.6	1261.3	1228.8	1196.9	1172.7	1147.1	1132.5	1117.8	1112.7	1098.6	1098.0
15°	1254.3	1207.7	1177.1	1145.2	1111.4	1091.0	1078.2	1063.6	1057.2	1047.6	1040.6
17.5°	1207.1	1165.0	1126.7	1094.2	1063.6	1047.0	1030.4	1020.2	1009.3	1002.3	990.8
20°	1154.8	1115.2	1077.0	1041.9	1019.5	999.8	987.0	977.4	965.9	962.7	951.3
22.5°	1110.8	1066.1	1029.7	1001.7	976.8	953.8	939.8	934.0	927.0	915.5	915.5
25°	1062.3	1017.0	985.7	956.4	934.7	914.3	904.7	896.4	888.7	881.7	879.2
27.5°	1021.4	981.3	943.0	916.2	897.7	878.5	870.2	859.4	853.6	847.9	840.3
30°	978.1	936.6	904.1	878.5	858.1	841.5	832.6	825.6	820.5	815.4	811.5
32.5°	933.4	895.8	864.5	839.6	819.2	807.7	800.1	795.6	789.8	783.5	778.4
35°	895.1	853.0	822.4	800.7	784.7	775.2	766.2	761.8	755.4	755.4	750.3
37.5°	849.8	812.8	785.4	765.6	751.6	742.6	732.4	729.9	725.4	722.9	720.9
40°	810.3	776.5	750.9	731.2	715.8	708.8	701.2	696.1	693.5	690.3	689.0
42.5°	769.4	737.5	713.3	695.4	682.7	676.9	669.9	666.7	661.0	656.5	655.9
45°	728.0	696.7	674.4	659.7	648.2	641.2	636.7	629.1	626.5	621.4	620.8
47.5°	689.7	659.1	636.7	624.6	614.4	609.3	602.3	594.0	590.8	587.6	587.0
50°	645.7	618.2	597.8	586.3	576.8	568.5	561.4	556.3	554.4	554.4	555.7
52.5°	601.0	578.7	562.1	547.4	538.5	529.5	523.2	520.6	517.4	521.2	523.8
55°	557.6	534.0	521.2	507.9	498.9	488.7	485.5	484.2	482.3	487.4	490.0
57.5°	511.0	495.1	479.8	465.7	458.1	451.7	446.6	446.0	449.8	451.1	458.7
60°	467.0	447.9	434.5	424.3	414.7	410.9	409.6	408.3	410.9	417.9	428.7
62.5°	418.5	403.9	389.2	382.2	375.8	368.8	368.8	370.0	375.8	384.1	394.9
65°	371.3	357.9	348.4	339.4	333.7	329.8	331.1	333.7	339.4	350.3	362.4
67.5°	322.8	313.9	305.0	296.7	290.9	291.6	292.2	295.4	302.4	315.2	326.7
70°	276.3	266.0	259.0	255.8	251.4	248.8	252.6	259.0	264.8	276.3	285.8
72.5°	229.7	221.4	216.3	214.4	213.1	211.2	211.8	218.8	227.1	238.6	250.1
75°	183.7	180.6	176.7	174.2	172.3	173.5	174.8	181.2	187.6	199.7	212.5
77.5°	142.3	138.4	135.9	135.3	134.0	134.6	137.8	142.9	149.3	158.2	168.4
80°	101.4	100.2	98.9	98.3	98.3	98.9	104.0	107.2	112.9	121.2	128.9
82.5°	67.0	66.4	66.4	66.4	67.0	67.0	69.5	74.0	78.5	84.2	90.6
85°	38.9	37.6	39.6	40.2	38.9	40.8	42.1	44.7	46.6	49.8	53.0
87.5°	16.0	17.2	16.6	17.2	17.2	18.5	17.9	20.4	21.7	23.0	22.3
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: P242829

CATALOG NUMBER: S125DRP-S1270D935-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1503.1	1503.1	1503.1	1503.1
2.5°	1414.5	1418.9	1415.1	1420.2
5°	1320.0	1314.3	1318.1	1315.6
7.5°	1232.6	1227.5	1219.9	1217.3
10°	1151.6	1144.6	1143.9	1139.5
12.5°	1092.3	1085.9	1077.0	1075.7
15°	1036.8	1031.7	1027.2	1031.0
17.5°	989.5	985.1	983.8	980.0
20°	945.5	942.3	943.6	935.3
22.5°	910.4	903.4	902.1	902.1
25°	873.4	870.2	867.0	870.2
27.5°	840.9	837.7	836.4	837.1
30°	811.5	805.2	805.8	805.2
32.5°	779.6	775.8	774.5	773.3
35°	748.4	748.4	745.2	745.2
37.5°	719.7	719.0	717.1	718.4
40°	686.5	685.9	683.9	680.1
42.5°	654.6	652.0	651.4	650.8
45°	620.8	620.8	619.5	618.9
47.5°	587.6	588.9	591.4	590.8
50°	558.3	558.9	560.8	561.4
52.5°	525.7	530.2	532.7	532.1
55°	495.7	500.2	504.7	505.3
57.5°	465.7	471.5	476.0	477.2
60°	435.1	443.4	449.2	451.7
62.5°	405.8	415.3	421.1	421.1
65°	373.2	382.8	387.9	391.7
67.5°	339.4	349.0	354.1	357.3
70°	301.8	311.3	319.0	321.6
72.5°	264.8	273.1	278.8	282.0
75°	220.7	232.2	238.0	241.2
77.5°	178.6	190.1	193.3	195.2
80°	136.5	142.9	147.4	148.0
82.5°	97.0	102.1	102.7	104.6
85°	57.4	60.0	60.6	60.0
87.5°	23.6	23.0	23.0	24.2
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P242829
 CATALOG NUMBER: S125DRP-S1270D935-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	18.89	20.45	19.25	20.77	21.08	18.86	20.43	19.22	20.74	21.06
	3H	20.26	21.67	20.63	21.99	22.35	20.29	21.70	20.66	22.03	22.39
	4H	20.75	22.07	21.15	22.42	22.80	20.77	22.10	21.17	22.45	22.83
	6H	21.09	22.31	21.50	22.68	23.07	21.09	22.31	21.50	22.68	23.07
	8H	21.18	22.35	21.60	22.73	23.13	21.17	22.34	21.60	22.73	23.13
	12H	21.23	22.34	21.66	22.73	23.16	21.21	22.33	21.64	22.71	23.14
4H	2H	20.39	21.72	20.79	22.07	22.44	19.94	21.26	20.34	21.61	21.99
	3H	21.74	22.84	22.15	23.24	23.64	21.60	22.70	22.01	23.10	23.50
	4H	22.24	23.24	22.68	23.65	24.09	22.15	23.15	22.59	23.56	24.00
	6H	22.62	23.48	23.07	23.93	24.38	22.53	23.39	22.98	23.84	24.29
	8H	22.72	23.53	23.18	23.97	24.44	22.62	23.43	23.09	23.88	24.34
	12H	22.78	23.51	23.26	23.99	24.46	22.68	23.40	23.16	23.88	24.35
8H	4H	22.73	23.54	23.19	23.98	24.45	22.49	23.31	22.96	23.75	24.21
	6H	23.18	23.85	23.68	24.34	24.82	23.00	23.67	23.49	24.16	24.63
	8H	23.32	23.93	23.84	24.43	24.92	23.14	23.75	23.66	24.26	24.74
	12H	23.43	23.96	23.93	24.45	25.01	23.24	23.78	23.75	24.27	24.83
12H	4H	22.78	23.50	23.26	23.98	24.45	22.51	23.24	22.99	23.72	24.19
	6H	23.26	23.86	23.77	24.37	24.86	23.04	23.65	23.56	24.16	24.64
	8H	23.45	23.99	23.96	24.48	25.04	23.25	23.78	23.76	24.27	24.84