

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: P243693

Luminaire Tested: S125DRP-H1090D940-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P243693
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-H1090D940-X4F0-XX-UDD-A-W
Description: DEFINE 5 DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

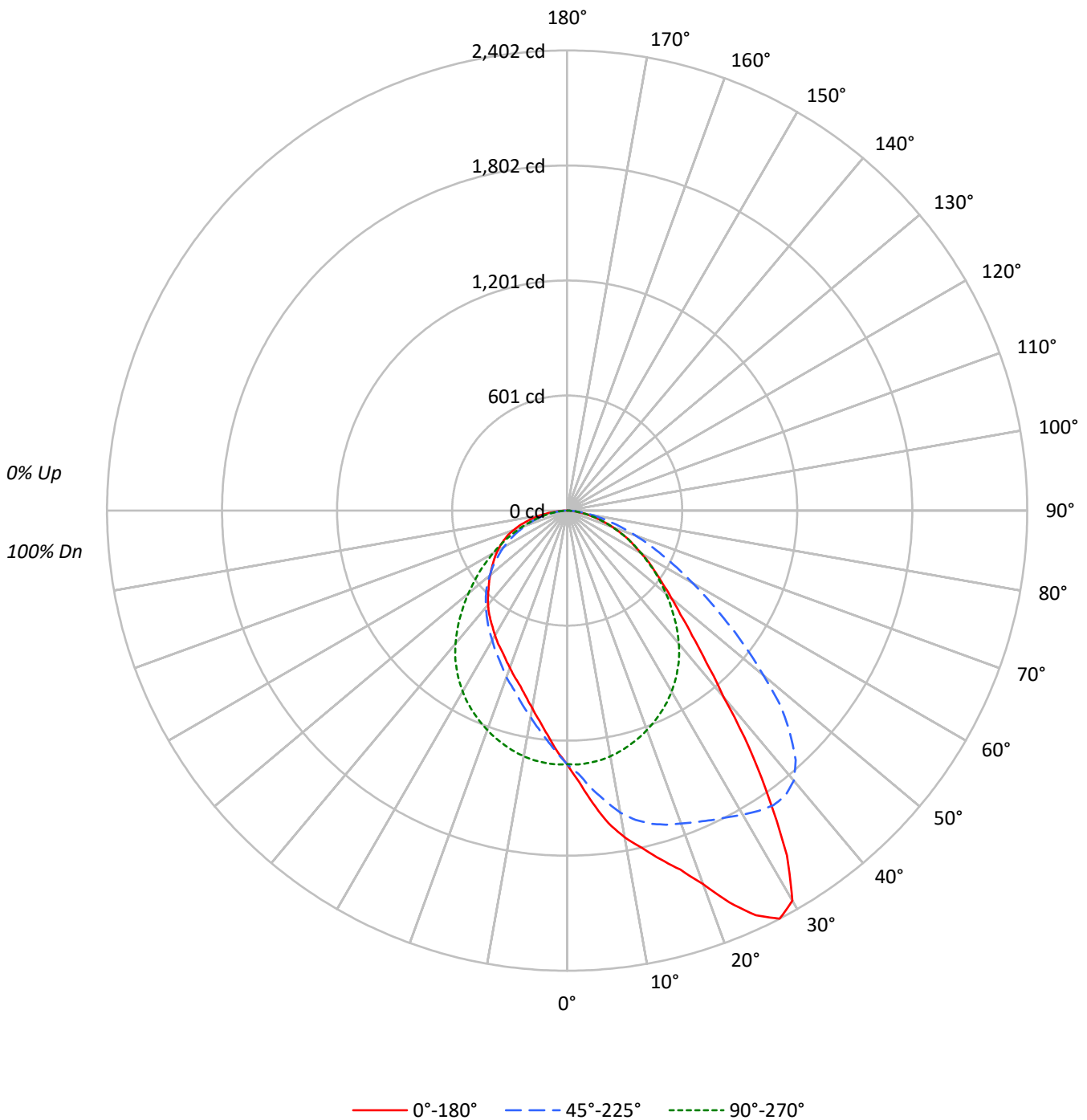
Lumens per Lamp: N/A
Luminaire Lumens: 3773.0 lumens
Efficiency: N/A
Efficacy: 119.8 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.22 / 1.53
Luminous Opening: Rectangular (W 3.88' x L: 0.39' x H: 0')
CIE Type: Direct

Input Watts (W): 31.5
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°	9409	9409	9409	9409	9409
5°	10931	10379	9430	8579	8380
10°	12506	11557	9399	7900	7563
15°	13865	12451	9315	7367	6968
20°	15697	13151	9221	7008	6610
25°	18279	13981	9102	6648	6332
30°	19297	15037	8952	6424	6176
35°	15958	16288	8734	6260	6046
40°	11804	17074	8417	6126	5957
45°	9281	16543	7959	6006	5828
50°	7859	14774	7444	5840	5805
55°	6997	12659	6932	5654	5828
60°	6348	10729	6364	5426	5952
65°	5886	9172	5832	5146	6122
70°	5289	7843	5220	4809	6157
75°	4512	6634	4586	4394	6074
80°	3692	5362	3757	3823	5669
85°	2536	3768	2667	3017	4819

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 16543 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.9	3.4
10°-20°	382.1	10.1
20°-30°	621.3	16.5
30°-40°	755.8	20.0
40°-50°	691.6	18.3
50°-60°	553.5	14.7
60°-70°	385.5	10.2
70°-80°	204.9	5.4
80°-90°	50.3	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°	1131.3	30.0
0°-40°	1887.1	50.0
0°-60°	3132.3	83.0
0°-90°	3773.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3773.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1324	1324	1324	1324	1324	
5°	1532	1455	1322	1202	1175	152
15°	1884	1692	1266	1001	947	540
25°	2331	1783	1161	848	807	1064
35°	1839	1877	1007	722	697	1140
45°	923	1646	792	598	580	728
55°	565	1022	559	456	470	509
65°	350	545	347	306	364	344
75°	164	242	167	160	221	178
85°	31	46	33	37	59	40
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°	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8
2.5°	1417.2	1411.3	1409.7	1410.3	1407.0	1404.4	1397.9	1389.3	1383.4	1375.9	1373.8
5°	1532.1	1517.6	1520.3	1516.0	1509.0	1499.9	1491.9	1479.0	1466.6	1454.8	1439.2
7.5°	1644.9	1642.2	1634.7	1633.6	1622.3	1606.7	1590.6	1572.9	1546.6	1528.4	1507.4
10°	1732.9	1738.3	1727.5	1728.1	1708.2	1692.6	1678.7	1655.6	1626.1	1601.4	1570.8
12.5°	1803.8	1805.9	1804.3	1797.3	1784.4	1758.1	1744.7	1720.5	1688.3	1654.5	1630.9
15°	1884.3	1878.4	1869.3	1860.7	1841.9	1823.1	1795.2	1766.7	1725.9	1692.1	1657.7
17.5°	1964.8	1963.7	1952.5	1934.2	1910.6	1885.9	1844.0	1807.5	1764.0	1719.5	1676.5
20°	2075.4	2069.5	2052.8	2031.9	1988.4	1953.5	1901.5	1851.5	1794.6	1738.8	1688.9
22.5°	2213.9	2194.6	2177.9	2145.7	2095.8	2035.1	1976.6	1904.1	1824.7	1759.2	1696.9
25°	2330.9	2322.3	2304.6	2268.7	2211.8	2138.7	2051.8	1969.6	1869.8	1782.8	1701.8
27.5°	2401.8	2398.0	2387.3	2353.5	2306.2	2233.8	2140.9	2036.2	1922.9	1805.4	1708.2
30°	2351.3	2351.9	2357.8	2354.0	2333.1	2286.4	2203.7	2098.5	1967.5	1832.2	1709.8
32.5°	2134.4	2148.9	2195.1	2217.1	2246.6	2256.3	2219.3	2131.8	2005.1	1859.1	1715.2
35°	1839.2	1874.6	1905.8	1970.2	2046.9	2109.8	2146.3	2117.8	2020.6	1877.3	1717.9
37.5°	1561.1	1558.4	1606.7	1676.5	1758.1	1865.0	1968.6	2025.5	1993.8	1873.5	1713.0
40°	1272.3	1297.0	1327.1	1388.8	1484.3	1615.9	1739.3	1861.2	1905.2	1840.3	1694.2
42.5°	1074.7	1086.0	1116.1	1164.4	1233.1	1367.3	1489.2	1645.9	1758.7	1766.2	1652.9
45°	923.4	935.7	944.3	992.1	1055.9	1146.1	1271.2	1429.0	1580.4	1645.9	1585.8
47.5°	802.0	809.0	827.8	856.8	898.7	978.6	1078.5	1221.8	1386.6	1513.9	1493.5
50°	710.8	716.1	731.2	747.3	781.6	840.7	921.2	1038.8	1197.1	1336.2	1381.8
52.5°	630.2	637.2	644.7	660.3	692.0	731.7	797.2	889.0	1036.1	1178.3	1250.8
55°	564.7	567.4	575.5	587.3	611.5	641.5	693.6	776.8	879.9	1021.6	1121.4
57.5°	507.8	505.2	513.7	521.8	537.9	563.1	600.7	662.5	760.7	881.5	985.6
60°	446.6	449.3	455.8	462.2	473.5	495.5	525.0	574.4	646.3	754.8	861.1
62.5°	394.0	396.2	397.8	406.9	417.1	432.7	456.8	497.1	556.7	646.3	741.4
65°	350.0	346.3	348.4	354.8	362.9	375.8	398.3	427.9	472.4	545.4	624.3
67.5°	298.5	299.6	300.1	303.8	310.8	323.2	339.3	363.4	399.9	457.4	526.6
70°	254.5	255.0	255.5	258.8	264.7	271.6	282.9	301.7	332.8	377.4	431.6
72.5°	209.4	211.5	211.5	214.2	218.5	222.2	233.0	248.6	272.2	307.6	353.2
75°	164.3	168.0	169.1	172.3	176.1	177.2	185.2	197.6	212.6	241.6	277.5
77.5°	127.8	127.8	129.9	133.7	133.7	136.9	145.5	150.8	162.7	182.5	209.9
80°	90.2	91.8	91.8	92.9	95.0	97.7	101.5	106.3	116.5	131.0	145.5
82.5°	59.1	59.6	60.1	62.8	61.7	64.4	66.0	71.9	76.8	83.7	92.9
85°	31.1	31.1	31.7	33.3	34.9	35.4	36.5	39.2	42.9	46.2	51.5
87.5°	12.9	12.3	12.3	13.4	13.4	14.0	14.5	15.6	17.7	17.7	19.9
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°	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8
2.5°	1372.1	1367.8	1360.3	1353.9	1345.8	1339.9	1334.0	1326.5	1319.0	1310.9	1302.4
5°	1426.9	1414.0	1399.5	1385.0	1367.8	1353.9	1338.9	1321.7	1307.2	1291.1	1273.9
7.5°	1489.7	1467.2	1441.9	1413.5	1386.6	1362.5	1337.8	1314.2	1292.7	1268.5	1244.9
10°	1550.4	1511.2	1479.5	1440.9	1402.7	1367.3	1333.5	1302.4	1271.2	1241.2	1212.2
12.5°	1591.7	1547.2	1507.4	1462.9	1418.3	1373.8	1329.2	1286.3	1249.2	1212.7	1182.1
15°	1620.2	1589.0	1536.4	1482.7	1424.2	1366.2	1315.8	1265.9	1221.8	1179.4	1142.9
17.5°	1637.9	1597.6	1546.1	1489.7	1425.3	1364.6	1304.0	1244.4	1193.9	1148.3	1106.9
20°	1642.7	1595.5	1541.8	1483.3	1418.8	1352.3	1284.1	1219.1	1164.4	1112.3	1070.4
22.5°	1637.9	1583.1	1525.7	1468.8	1401.1	1333.5	1262.1	1191.2	1128.4	1074.7	1030.7
25°	1629.8	1563.8	1503.7	1436.6	1373.8	1309.3	1235.8	1160.6	1095.1	1039.3	989.9
27.5°	1619.6	1543.9	1469.8	1403.8	1335.6	1272.3	1204.7	1127.9	1059.7	998.5	952.3
30°	1607.8	1517.6	1435.5	1357.1	1292.7	1229.3	1163.3	1090.8	1022.1	963.6	913.7
32.5°	1594.4	1489.7	1393.1	1308.8	1240.1	1181.6	1119.8	1050.6	982.9	920.1	876.6
35°	1575.6	1451.6	1347.4	1256.2	1184.8	1121.4	1067.2	1006.6	939.5	880.9	835.8
37.5°	1553.6	1417.8	1301.3	1202.5	1124.7	1059.7	1009.8	960.4	897.6	841.2	797.7
40°	1524.1	1377.0	1252.4	1145.6	1062.4	998.5	949.7	907.2	855.2	798.3	759.1
42.5°	1485.4	1331.9	1197.1	1083.3	1002.8	934.6	889.0	850.3	805.8	756.4	717.7
45°	1441.4	1280.3	1135.4	1023.7	936.2	871.3	826.7	791.8	758.0	714.0	678.0
47.5°	1372.7	1219.7	1079.6	956.1	870.2	807.4	765.5	732.2	707.0	672.1	636.7
50°	1291.1	1151.0	1013.5	889.5	802.6	741.9	702.2	673.2	651.7	624.9	598.0
52.5°	1201.4	1073.7	941.1	825.1	738.1	680.7	638.8	613.1	599.1	577.6	556.7
55°	1096.7	986.7	863.2	757.5	672.1	613.6	577.6	559.4	543.8	533.1	514.3
57.5°	991.5	898.7	788.6	683.9	605.5	553.5	521.3	500.9	489.6	482.1	468.7
60°	876.6	803.6	702.7	612.0	542.2	492.8	464.4	447.7	437.5	433.2	424.1
62.5°	767.1	711.3	619.5	543.8	481.5	438.1	409.6	396.2	389.7	384.9	379.5
65°	659.2	615.2	542.7	471.9	419.3	380.1	357.5	346.8	342.0	336.6	336.1
67.5°	562.1	521.8	463.8	405.8	361.8	328.5	308.7	297.9	292.6	293.1	290.4
70°	466.5	435.4	388.1	340.9	303.3	277.0	258.2	251.2	249.1	248.6	246.4
72.5°	377.4	359.7	318.3	278.6	249.1	228.7	213.7	207.8	205.1	204.0	204.0
75°	299.0	286.1	250.7	220.6	198.1	181.4	171.2	167.0	163.2	165.3	163.7
77.5°	224.4	213.7	189.5	168.0	150.8	136.9	132.1	128.3	126.2	125.6	127.8
80°	157.8	151.4	136.4	119.2	106.3	98.2	95.0	91.8	90.2	89.1	90.2
82.5°	101.5	97.7	87.0	76.8	69.3	65.0	61.7	60.1	57.4	58.0	59.1
85°	55.3	54.2	47.2	44.0	37.0	36.5	34.4	32.7	33.3	32.2	33.8
87.5°	22.5	21.5	19.9	18.3	16.1	14.5	13.4	14.5	12.9	14.5	14.0
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°	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8
2.5°	1298.1	1292.2	1285.2	1278.7	1269.1	1262.6	1259.4	1260.5	1256.7	1255.7	1255.1
5°	1263.7	1250.3	1237.4	1226.7	1215.4	1202.5	1193.4	1190.7	1189.6	1186.9	1181.0
7.5°	1228.3	1211.1	1194.5	1178.9	1162.8	1147.7	1138.6	1131.1	1126.8	1119.3	1117.7
10°	1190.7	1169.8	1152.0	1129.5	1110.2	1094.6	1082.8	1076.3	1072.6	1065.6	1059.7
12.5°	1154.7	1132.7	1105.3	1084.9	1064.5	1048.4	1035.0	1024.3	1021.6	1012.5	1007.6
15°	1116.1	1089.2	1064.5	1040.9	1021.6	1001.2	993.1	983.5	973.8	965.8	964.2
17.5°	1079.0	1046.8	1022.7	999.6	976.0	960.9	950.2	943.8	936.2	931.9	924.4
20°	1034.5	1008.2	981.3	959.9	939.5	926.6	912.1	906.2	900.8	890.6	887.4
22.5°	996.9	965.2	942.7	921.2	903.0	884.7	874.5	868.6	860.5	855.2	850.9
25°	957.7	931.4	903.0	881.5	865.9	847.7	840.7	833.2	826.2	821.4	817.1
27.5°	919.6	890.6	867.5	846.0	829.9	817.1	807.4	799.3	794.5	790.8	788.1
30°	879.9	853.0	831.6	811.7	793.4	782.7	773.6	770.4	765.0	762.3	758.0
32.5°	843.9	816.5	796.1	778.9	762.8	752.1	746.7	741.9	736.5	731.7	731.2
35°	803.1	779.5	760.7	741.9	730.1	721.5	715.6	710.8	706.5	702.7	700.6
37.5°	767.1	744.6	723.7	710.2	697.3	689.8	683.4	681.8	677.5	678.0	674.8
40°	728.5	708.1	690.4	676.9	668.4	660.3	656.0	650.6	648.0	648.5	645.8
42.5°	690.9	672.1	656.0	643.7	634.5	628.6	624.9	620.6	617.4	615.2	614.7
45°	652.8	636.1	622.7	610.4	602.9	597.5	592.7	587.3	584.6	583.5	583.0
47.5°	615.2	600.2	585.7	577.1	570.1	565.3	560.5	556.2	554.0	552.4	549.7
50°	576.6	561.5	551.3	540.6	534.7	528.2	522.9	520.7	518.0	517.5	520.2
52.5°	536.3	524.5	515.4	506.8	499.8	492.8	487.4	484.8	486.4	486.4	489.6
55°	498.2	485.8	477.2	470.3	462.7	456.3	450.9	450.9	450.9	454.2	458.5
57.5°	455.8	445.0	438.6	430.5	423.6	419.3	415.5	415.0	417.1	422.5	427.3
60°	412.8	405.3	398.3	391.9	384.9	381.7	381.2	380.1	383.3	388.7	398.9
62.5°	370.4	365.6	357.0	353.8	347.9	344.1	344.1	345.2	350.0	358.6	367.7
65°	329.6	322.6	316.2	313.0	309.2	306.0	306.0	310.3	317.3	325.3	336.6
67.5°	287.7	281.8	277.5	274.3	270.0	268.4	270.0	274.9	283.4	291.5	303.3
70°	242.6	241.6	237.8	233.5	231.4	231.4	233.0	238.4	244.8	257.1	267.3
72.5°	201.3	201.3	199.2	196.5	194.9	196.5	197.6	202.9	211.0	221.7	233.0
75°	163.7	162.1	160.5	159.4	158.9	160.0	161.6	165.9	175.5	185.7	194.9
77.5°	126.7	125.6	124.0	125.1	125.1	125.6	130.5	135.3	140.7	148.7	158.4
80°	91.3	91.8	90.2	89.7	92.3	93.4	97.2	100.9	104.7	113.8	120.8
82.5°	60.1	61.2	60.7	61.7	62.8	62.8	67.1	70.9	74.1	80.5	85.9
85°	34.4	34.9	34.9	36.5	37.6	37.0	40.8	42.9	44.6	49.4	52.6
87.5°	15.0	15.6	16.1	16.1	16.1	18.3	18.8	19.9	20.4	21.5	23.1
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: P243693

CATALOG NUMBER: S125DRP-H1090D940-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1323.8	1323.8	1323.8	1323.8
2.5°	1250.3	1249.7	1252.4	1254.0
5°	1177.3	1175.7	1173.5	1174.6
7.5°	1112.3	1108.0	1106.9	1106.9
10°	1054.9	1050.6	1049.5	1047.9
12.5°	1006.0	999.6	996.9	994.2
15°	959.9	958.8	952.9	947.0
17.5°	917.4	919.1	913.2	910.5
20°	882.0	877.2	875.0	874.0
22.5°	846.0	842.3	842.3	838.5
25°	813.8	810.6	811.2	807.4
27.5°	783.8	783.2	782.7	781.6
30°	755.9	753.7	751.6	752.6
32.5°	729.0	725.8	724.2	723.7
35°	701.1	700.0	697.9	696.8
37.5°	673.7	674.3	671.6	671.0
40°	644.2	643.7	643.1	642.1
42.5°	613.1	611.5	612.5	612.0
45°	581.9	580.3	581.4	579.8
47.5°	551.3	552.4	552.4	552.9
50°	521.3	523.4	523.4	525.0
52.5°	493.3	497.6	497.6	497.1
55°	463.3	468.1	469.7	470.3
57.5°	434.8	439.7	444.5	445.6
60°	404.2	412.8	417.7	418.7
62.5°	376.9	384.9	391.4	391.9
65°	346.3	355.9	361.8	364.0
67.5°	315.1	322.6	330.7	333.9
70°	279.7	288.8	294.2	296.3
72.5°	242.6	252.8	259.8	260.9
75°	207.2	214.7	220.1	221.2
77.5°	167.0	174.5	179.3	180.4
80°	126.7	133.1	136.4	138.5
82.5°	89.7	93.9	95.6	97.7
85°	55.3	58.5	59.1	59.1
87.5°	24.2	24.7	24.7	25.8
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P243693
 CATALOG NUMBER: S125DRP-H1090D940-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	18.62	20.19	18.99	20.51	20.82	18.37	19.94	18.73	20.25	20.56
	3H	19.98	21.39	20.36	21.72	22.08	19.79	21.20	20.17	21.53	21.89
	4H	20.46	21.78	20.86	22.13	22.51	20.28	21.60	20.68	21.95	22.33
	6H	20.77	21.99	21.18	22.36	22.75	20.59	21.82	21.01	22.19	22.58
	8H	20.84	22.01	21.27	22.40	22.80	20.67	21.84	21.10	22.23	22.63
	12H	20.88	22.00	21.31	22.38	22.81	20.71	21.83	21.14	22.21	22.64
4H	2H	20.01	21.34	20.41	21.69	22.06	19.43	20.76	19.83	21.10	21.48
	3H	21.37	22.48	21.78	22.88	23.28	21.09	22.19	21.50	22.59	22.99
	4H	21.87	22.87	22.31	23.29	23.72	21.64	22.64	22.08	23.06	23.49
	6H	22.23	23.10	22.68	23.54	24.00	22.02	22.89	22.48	23.33	23.79
	8H	22.32	23.13	22.78	23.57	24.04	22.12	22.93	22.58	23.37	23.84
	12H	22.37	23.09	22.85	23.57	24.04	22.17	22.90	22.66	23.38	23.85
8H	4H	22.33	23.14	22.79	23.59	24.05	22.00	22.81	22.46	23.25	23.72
	6H	22.76	23.43	23.25	23.92	24.40	22.50	23.17	22.99	23.66	24.14
	8H	22.89	23.49	23.40	24.00	24.49	22.65	23.25	23.16	23.76	24.24
	12H	22.97	23.51	23.48	24.00	24.56	22.75	23.28	23.25	23.77	24.33
12H	4H	22.37	23.10	22.85	23.58	24.05	22.02	22.74	22.50	23.22	23.69
	6H	22.83	23.43	23.34	23.94	24.43	22.55	23.15	23.06	23.66	24.15
	8H	23.01	23.54	23.51	24.03	24.59	22.75	23.29	23.26	23.78	24.34