

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: P243664

Luminaire Tested: S125DRP-H1270D927-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2024  
Report Number: P243664  
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-H1270D927-X4F0-XX-UDD-A-W  
Description: DEFINE 5 DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER.  
HIGH PERFORMANCE LIGHT ENGINE  
Light Source: (184) 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

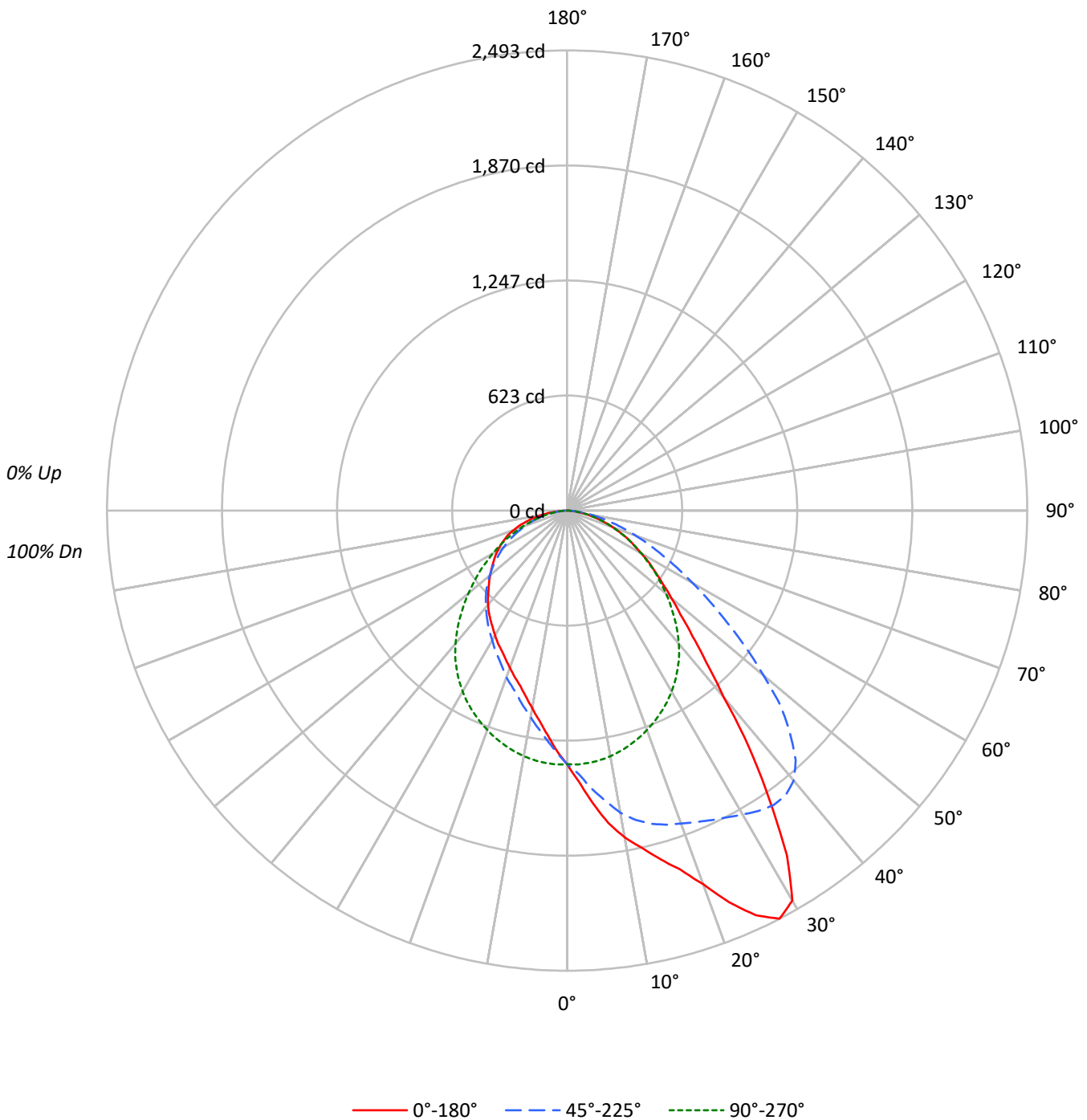
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3915.6 lumens  
Efficiency: N/A  
Efficacy: 103.9 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

TEST NUMBER: P243664

CATALOG NUMBER: S125DRP-H1270D927-X4F0-XX-UDD-A-W

### 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°	9765	9765	9765	9765	9765
5°	11344	10772	9786	8904	8697
10°	12979	11994	9754	8198	7848
15°	14389	12921	9666	7645	7232
20°	16290	13648	9569	7273	6860
25°	18970	14509	9446	6899	6571
30°	20026	15605	9291	6666	6410
35°	16561	16904	9063	6497	6274
40°	12251	17719	8735	6358	6182
45°	9632	17169	8260	6233	6048
50°	8156	15333	7724	6061	6025
55°	7263	13137	7193	5869	6047
60°	6589	11134	6604	5630	6178
65°	6108	9519	6053	5341	6352
70°	5488	8140	5417	4989	6390
75°	4682	6884	4759	4558	6302
80°	3831	5562	3901	3966	5882
85°	2634	3906	2773	3131	4999

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 17169 cd/sqm



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CATALOG NUMBER: S125DRP-H1270D927-X4F0-XX-UDD-A-W

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	132.7	3.4
10°-20°	396.6	10.1
20°-30°	644.8	16.5
30°-40°	784.4	20.0
40°-50°	717.8	18.3
50°-60°	574.4	14.7
60°-70°	400.1	10.2
70°-80°	212.6	5.4
80°-90°	52.2	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°	1174.0	30.0
0°-40°	1958.5	50.0
0°-60°	3250.7	83.0
0°-90°	3915.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3915.6	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1374	1374	1374	1374	1374	
5°	1590	1510	1372	1248	1219	158
15°	1956	1756	1314	1039	983	561
25°	2419	1850	1204	880	838	1104
35°	1909	1948	1045	749	723	1183
45°	958	1708	822	620	602	756
55°	586	1060	580	474	488	529
65°	363	566	360	318	378	358
75°	170	251	173	166	230	184
85°	32	48	34	38	61	42
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°	1373.9	1373.9	1373.9	1373.9	1373.9	1373.9	1373.9	1373.9	1373.9	1373.9	1373.9
2.5°	1470.8	1464.7	1463.0	1463.6	1460.2	1457.4	1450.8	1441.8	1435.7	1427.9	1425.7
5°	1590.0	1575.0	1577.8	1573.3	1566.1	1556.6	1548.3	1534.9	1522.1	1509.8	1493.7
7.5°	1707.0	1704.2	1696.4	1695.3	1683.6	1667.5	1650.8	1632.4	1605.1	1586.1	1564.4
10°	1798.4	1804.0	1792.8	1793.4	1772.8	1756.6	1742.1	1718.2	1687.5	1661.9	1630.2
12.5°	1871.9	1874.2	1872.5	1865.3	1851.9	1824.6	1810.7	1785.6	1752.2	1717.1	1692.5
15°	1955.5	1949.4	1939.9	1931.0	1911.5	1892.0	1863.0	1833.5	1791.2	1756.1	1720.4
17.5°	2039.1	2038.0	2026.3	2007.3	1982.8	1957.2	1913.7	1875.8	1830.7	1784.5	1739.9
20°	2153.8	2147.7	2130.5	2108.7	2063.6	2027.4	1973.3	1921.5	1862.5	1804.5	1752.7
22.5°	2297.6	2277.5	2260.3	2226.8	2175.0	2112.1	2051.3	1976.1	1893.7	1825.7	1761.1
25°	2419.0	2410.1	2391.7	2354.4	2295.4	2219.6	2129.3	2044.1	1940.5	1850.2	1766.1
27.5°	2492.6	2488.7	2477.5	2442.4	2393.4	2318.2	2221.8	2113.2	1995.6	1873.6	1772.8
30°	2440.2	2440.8	2446.9	2443.0	2421.3	2372.8	2287.0	2177.8	2041.9	1901.5	1774.4
32.5°	2215.1	2230.2	2278.1	2300.9	2331.6	2341.6	2303.2	2212.3	2080.9	1929.3	1780.0
35°	1908.7	1945.5	1977.8	2044.7	2124.3	2189.5	2227.4	2197.9	2097.0	1948.3	1782.8
37.5°	1620.1	1617.3	1667.5	1739.9	1824.6	1935.5	2043.0	2102.0	2069.2	1944.4	1777.8
40°	1320.4	1346.0	1377.2	1441.3	1540.5	1676.9	1805.1	1931.6	1977.2	1909.8	1758.3
42.5°	1115.4	1127.1	1158.3	1208.4	1279.7	1419.0	1545.5	1708.1	1825.1	1832.9	1715.4
45°	958.3	971.1	980.0	1029.6	1095.9	1189.5	1319.3	1483.1	1640.2	1708.1	1645.8
47.5°	832.3	839.6	859.1	889.2	932.6	1015.6	1119.3	1268.0	1439.1	1571.1	1549.9
50°	737.6	743.2	758.8	775.5	811.2	872.5	956.0	1078.0	1242.4	1386.7	1434.0
52.5°	654.1	661.3	669.1	685.3	718.1	759.4	827.3	922.6	1075.3	1222.9	1298.1
55°	586.1	588.9	597.2	609.5	634.6	665.8	719.8	806.2	913.1	1060.2	1163.8
57.5°	527.0	524.3	533.2	541.5	558.2	584.4	623.4	687.5	789.4	914.8	1022.9
60°	463.5	466.3	473.0	479.7	491.4	514.2	544.9	596.1	670.8	783.3	893.6
62.5°	408.9	411.2	412.8	422.3	432.9	449.0	474.1	515.9	577.7	670.8	769.4
65°	363.2	359.3	361.6	368.3	376.6	390.0	413.4	444.0	490.3	566.0	647.9
67.5°	309.8	310.9	311.4	315.3	322.6	335.4	352.1	377.2	415.1	474.7	546.5
70°	264.1	264.6	265.2	268.5	274.7	281.9	293.6	313.1	345.4	391.7	447.9
72.5°	217.3	219.5	219.5	222.3	226.8	230.7	241.8	257.9	282.5	319.2	366.6
75°	170.5	174.4	175.5	178.8	182.7	183.9	192.2	205.0	220.6	250.7	288.0
77.5°	132.6	132.6	134.8	138.7	138.7	142.1	151.0	156.6	168.8	189.4	217.8
80°	93.6	95.3	95.3	96.4	98.6	101.4	105.3	110.3	120.9	135.9	151.0
82.5°	61.3	61.8	62.4	65.2	64.1	66.9	68.5	74.7	79.7	86.9	96.4
85°	32.3	32.3	32.9	34.5	36.2	36.8	37.9	40.7	44.6	47.9	53.5
87.5°	13.4	12.8	12.8	13.9	13.9	14.5	15.0	16.2	18.4	18.4	20.6
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: P243664

CATALOG NUMBER: S125DRP-H1270D927-X4F0-XX-UDD-A-W

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1373.9	1373.9	1373.9	1373.9	1373.9	1373.9	1373.9	1373.9	1373.9	1373.9	1373.9
2.5°	1424.0	1419.6	1411.8	1405.1	1396.7	1390.6	1384.5	1376.7	1368.9	1360.5	1351.6
5°	1480.8	1467.5	1452.4	1437.4	1419.6	1405.1	1389.5	1371.6	1356.6	1339.9	1322.1
7.5°	1546.0	1522.6	1496.4	1466.9	1439.1	1414.0	1388.4	1363.8	1341.6	1316.5	1292.0
10°	1609.0	1568.3	1535.4	1495.3	1455.8	1419.0	1383.9	1351.6	1319.3	1288.1	1258.0
12.5°	1651.9	1605.6	1564.4	1518.2	1471.9	1425.7	1379.4	1334.9	1296.4	1258.5	1226.8
15°	1681.4	1649.1	1594.5	1538.8	1478.1	1417.9	1365.5	1313.7	1268.0	1224.0	1186.1
17.5°	1699.8	1658.0	1604.5	1546.0	1479.2	1416.2	1353.3	1291.4	1239.0	1191.7	1148.8
20°	1704.8	1655.8	1600.1	1539.3	1472.5	1403.4	1332.6	1265.2	1208.4	1154.4	1110.9
22.5°	1699.8	1643.0	1583.4	1524.3	1454.1	1383.9	1309.8	1236.3	1171.1	1115.4	1069.7
25°	1691.4	1622.9	1560.5	1490.9	1425.7	1358.8	1282.5	1204.5	1136.5	1078.6	1027.3
27.5°	1680.8	1602.3	1525.4	1456.9	1386.1	1320.4	1250.2	1170.5	1099.8	1036.3	988.3
30°	1668.6	1575.0	1489.8	1408.4	1341.6	1275.8	1207.3	1132.1	1060.8	1000.0	948.2
32.5°	1654.7	1546.0	1445.7	1358.3	1287.0	1226.2	1162.2	1090.3	1020.1	954.9	909.8
35°	1635.2	1506.5	1398.4	1303.7	1229.6	1163.8	1107.6	1044.6	975.0	914.2	867.4
37.5°	1612.3	1471.4	1350.5	1248.0	1167.2	1099.8	1048.0	996.7	931.5	873.0	827.9
40°	1581.7	1429.0	1299.8	1188.9	1102.6	1036.3	985.6	941.5	887.5	828.4	787.8
42.5°	1541.6	1382.2	1242.4	1124.3	1040.7	970.0	922.6	882.5	836.2	785.0	744.9
45°	1495.9	1328.7	1178.3	1062.4	971.6	904.2	858.0	821.8	786.7	741.0	703.7
47.5°	1424.6	1265.8	1120.4	992.2	903.1	837.9	794.5	759.9	733.7	697.5	660.8
50°	1339.9	1194.5	1051.9	923.2	832.9	769.9	728.7	698.6	676.4	648.5	620.6
52.5°	1246.8	1114.3	976.6	856.3	766.0	706.4	663.0	636.2	621.8	599.5	577.7
55°	1138.2	1024.0	895.9	786.1	697.5	636.8	599.5	580.5	564.4	553.2	533.7
57.5°	1029.0	932.6	818.4	709.8	628.4	574.4	541.0	519.8	508.1	500.3	486.4
60°	909.8	834.0	729.3	635.1	562.7	511.4	481.9	464.6	454.1	449.6	440.1
62.5°	796.1	738.2	642.9	564.4	499.7	454.6	425.1	411.2	404.5	399.5	393.9
65°	684.2	638.5	563.3	489.7	435.1	394.4	371.0	359.9	354.9	349.3	348.8
67.5°	583.3	541.5	481.4	421.2	375.5	341.0	320.3	309.2	303.6	304.2	301.4
70°	484.1	451.8	402.8	353.8	314.8	287.5	268.0	260.7	258.5	257.9	255.7
72.5°	391.7	373.3	330.4	289.1	258.5	237.3	221.7	215.6	212.8	211.7	211.7
75°	310.3	296.9	260.2	229.0	205.6	188.3	177.7	173.3	169.4	171.6	169.9
77.5°	232.9	221.7	196.7	174.4	156.6	142.1	137.1	133.2	130.9	130.4	132.6
80°	163.8	157.1	141.5	123.7	110.3	102.0	98.6	95.3	93.6	92.5	93.6
82.5°	105.3	101.4	90.3	79.7	71.9	67.4	64.1	62.4	59.6	60.2	61.3
85°	57.4	56.3	49.0	45.7	38.4	37.9	35.7	34.0	34.5	33.4	35.1
87.5°	23.4	22.3	20.6	18.9	16.7	15.0	13.9	15.0	13.4	15.0	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



TEST NUMBER: P243664

CATALOG NUMBER: S125DRP-H1270D927-X4F0-XX-UDD-A-W

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1373.9	1373.9	1373.9	1373.9	1373.9	1373.9	1373.9	1373.9	1373.9	1373.9	1373.9
2.5°	1347.1	1341.0	1333.8	1327.1	1317.0	1310.4	1307.0	1308.1	1304.2	1303.1	1302.6
5°	1311.5	1297.5	1284.2	1273.0	1261.3	1248.0	1238.5	1235.7	1234.6	1231.8	1225.7
7.5°	1274.7	1256.9	1239.6	1223.4	1206.7	1191.1	1181.7	1173.9	1169.4	1161.6	1159.9
10°	1235.7	1214.0	1195.6	1172.2	1152.1	1136.0	1123.7	1117.0	1113.1	1105.9	1099.8
12.5°	1198.4	1175.5	1147.1	1126.0	1104.8	1088.1	1074.1	1063.0	1060.2	1050.7	1045.7
15°	1158.3	1130.4	1104.8	1080.3	1060.2	1039.0	1030.7	1020.7	1010.6	1002.3	1000.6
17.5°	1119.8	1086.4	1061.3	1037.4	1012.9	997.3	986.1	979.4	971.6	967.2	959.4
20°	1073.6	1046.3	1018.4	996.1	975.0	961.6	946.6	940.4	934.9	924.3	920.9
22.5°	1034.6	1001.7	978.3	956.0	937.1	918.1	907.6	901.4	893.1	887.5	883.0
25°	993.9	966.6	937.1	914.8	898.6	879.7	872.5	864.7	857.4	852.4	847.9
27.5°	954.4	924.3	900.3	878.0	861.3	847.9	837.9	829.6	824.5	820.6	817.9
30°	913.1	885.3	863.0	842.4	823.4	812.3	802.8	799.5	793.9	791.1	786.7
32.5°	875.8	847.4	826.2	808.4	791.7	780.5	775.0	769.9	764.4	759.4	758.8
35°	833.5	808.9	789.4	769.9	757.7	748.8	742.6	737.6	733.2	729.3	727.0
37.5°	796.1	772.7	751.0	737.1	723.7	715.9	709.2	707.6	703.1	703.7	700.3
40°	756.0	734.8	716.5	702.5	693.6	685.3	680.8	675.2	672.5	673.0	670.2
42.5°	717.0	697.5	680.8	668.0	658.5	652.4	648.5	644.0	640.7	638.5	637.9
45°	677.5	660.2	646.3	633.5	625.7	620.1	615.1	609.5	606.7	605.6	605.0
47.5°	638.5	622.9	607.8	598.9	591.7	586.7	581.6	577.2	575.0	573.3	570.5
50°	598.4	582.8	572.2	561.0	554.9	548.2	542.6	540.4	537.6	537.1	539.9
52.5°	556.6	544.3	534.8	525.9	518.7	511.4	505.9	503.1	504.8	504.8	508.1
55°	517.0	504.2	495.3	488.0	480.2	473.6	468.0	468.0	468.0	471.3	475.8
57.5°	473.0	461.9	455.2	446.8	439.6	435.1	431.2	430.7	432.9	438.5	443.5
60°	428.4	420.6	413.4	406.7	399.5	396.1	395.6	394.4	397.8	403.4	413.9
62.5°	384.4	379.4	370.5	367.1	361.0	357.1	357.1	358.2	363.2	372.2	381.6
65°	342.1	334.8	328.1	324.8	320.9	317.6	317.6	322.0	329.3	337.6	349.3
67.5°	298.6	292.5	288.0	284.7	280.2	278.6	280.2	285.2	294.2	302.5	314.8
70°	251.8	250.7	246.8	242.3	240.1	240.1	241.8	247.4	254.0	266.9	277.4
72.5°	208.9	208.9	206.7	203.9	202.2	203.9	205.0	210.6	219.0	230.1	241.8
75°	169.9	168.3	166.6	165.5	164.9	166.0	167.7	172.2	182.2	192.8	202.2
77.5°	131.5	130.4	128.7	129.8	129.8	130.4	135.4	140.4	146.0	154.3	164.4
80°	94.7	95.3	93.6	93.0	95.8	96.9	100.8	104.7	108.6	118.1	125.4
82.5°	62.4	63.5	63.0	64.1	65.2	65.2	69.6	73.5	76.9	83.6	89.1
85°	35.7	36.2	36.2	37.9	39.0	38.4	42.3	44.6	46.2	51.3	54.6
87.5°	15.6	16.2	16.7	16.7	16.7	18.9	19.5	20.6	21.2	22.3	24.0
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: P243664

CATALOG NUMBER: S125DRP-H1270D927-X4F0-XX-UDD-A-W

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	1373.9	1373.9	1373.9	1373.9
2.5°	1297.5	1297.0	1299.8	1301.4
5°	1221.8	1220.1	1217.9	1219.0
7.5°	1154.4	1149.9	1148.8	1148.8
10°	1094.8	1090.3	1089.2	1087.5
12.5°	1044.1	1037.4	1034.6	1031.8
15°	996.1	995.0	988.9	982.8
17.5°	952.1	953.8	947.7	944.9
20°	915.4	910.3	908.1	907.0
22.5°	878.0	874.1	874.1	870.2
25°	844.6	841.3	841.8	837.9
27.5°	813.4	812.8	812.3	811.2
30°	784.4	782.2	780.0	781.1
32.5°	756.6	753.2	751.6	751.0
35°	727.6	726.5	724.3	723.1
37.5°	699.2	699.8	697.0	696.4
40°	668.6	668.0	667.4	666.3
42.5°	636.2	634.6	635.7	635.1
45°	603.9	602.3	603.4	601.7
47.5°	572.2	573.3	573.3	573.8
50°	541.0	543.2	543.2	544.9
52.5°	512.0	516.5	516.5	515.9
55°	480.8	485.8	487.5	488.0
57.5°	451.3	456.3	461.3	462.4
60°	419.5	428.4	433.4	434.6
62.5°	391.1	399.5	406.1	406.7
65°	359.3	369.4	375.5	377.7
67.5°	327.0	334.8	343.2	346.5
70°	290.3	299.7	305.3	307.5
72.5°	251.8	262.4	269.6	270.8
75°	215.1	222.9	228.4	229.5
77.5°	173.3	181.1	186.1	187.2
80°	131.5	138.2	141.5	143.7
82.5°	93.0	97.5	99.2	101.4
85°	57.4	60.7	61.3	61.3
87.5°	25.1	25.6	25.6	26.7
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P243664  
 CATALOG NUMBER: S125DRP-H1270D927-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	18.75	20.32	19.12	20.64	20.95	18.49	20.07	18.86	20.38	20.69
	3H	20.11	21.52	20.48	21.85	22.21	19.92	21.33	20.30	21.66	22.02
	4H	20.59	21.91	20.98	22.26	22.64	20.41	21.73	20.81	22.08	22.46
	6H	20.89	22.12	21.31	22.49	22.88	20.72	21.95	21.13	22.32	22.71
	8H	20.97	22.14	21.40	22.53	22.93	20.80	21.97	21.23	22.36	22.76
	12H	21.00	22.13	21.43	22.51	22.94	20.84	21.96	21.27	22.34	22.77
4H	2H	20.14	21.47	20.54	21.82	22.19	19.56	20.88	19.96	21.23	21.61
	3H	21.50	22.61	21.91	23.00	23.40	21.21	22.32	21.62	22.72	23.12
	4H	22.00	23.00	22.44	23.41	23.85	21.77	22.77	22.21	23.19	23.62
	6H	22.36	23.22	22.81	23.67	24.12	22.15	23.02	22.61	23.46	23.92
	8H	22.45	23.26	22.91	23.70	24.17	22.25	23.06	22.71	23.50	23.97
	12H	22.50	23.22	22.98	23.70	24.17	22.30	23.03	22.78	23.51	23.98
8H	4H	22.46	23.27	22.92	23.71	24.18	22.13	22.94	22.59	23.38	23.85
	6H	22.89	23.56	23.38	24.05	24.53	22.63	23.30	23.12	23.79	24.27
	8H	23.02	23.62	23.53	24.13	24.61	22.78	23.38	23.29	23.89	24.37
	12H	23.10	23.64	23.61	24.13	24.69	22.87	23.41	23.38	23.90	24.46
12H	4H	22.50	23.23	22.98	23.70	24.17	22.15	22.87	22.63	23.35	23.82
	6H	22.96	23.56	23.47	24.07	24.56	22.68	23.28	23.19	23.79	24.28
	8H	23.13	23.67	23.64	24.16	24.72	22.88	23.41	23.39	23.91	24.47