

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: P243684

Luminaire Tested: S125DRP-H1270D930-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P243684
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-H1270D930-X4F0-XX-UDD-A-W
Description: DEFINE 5 DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

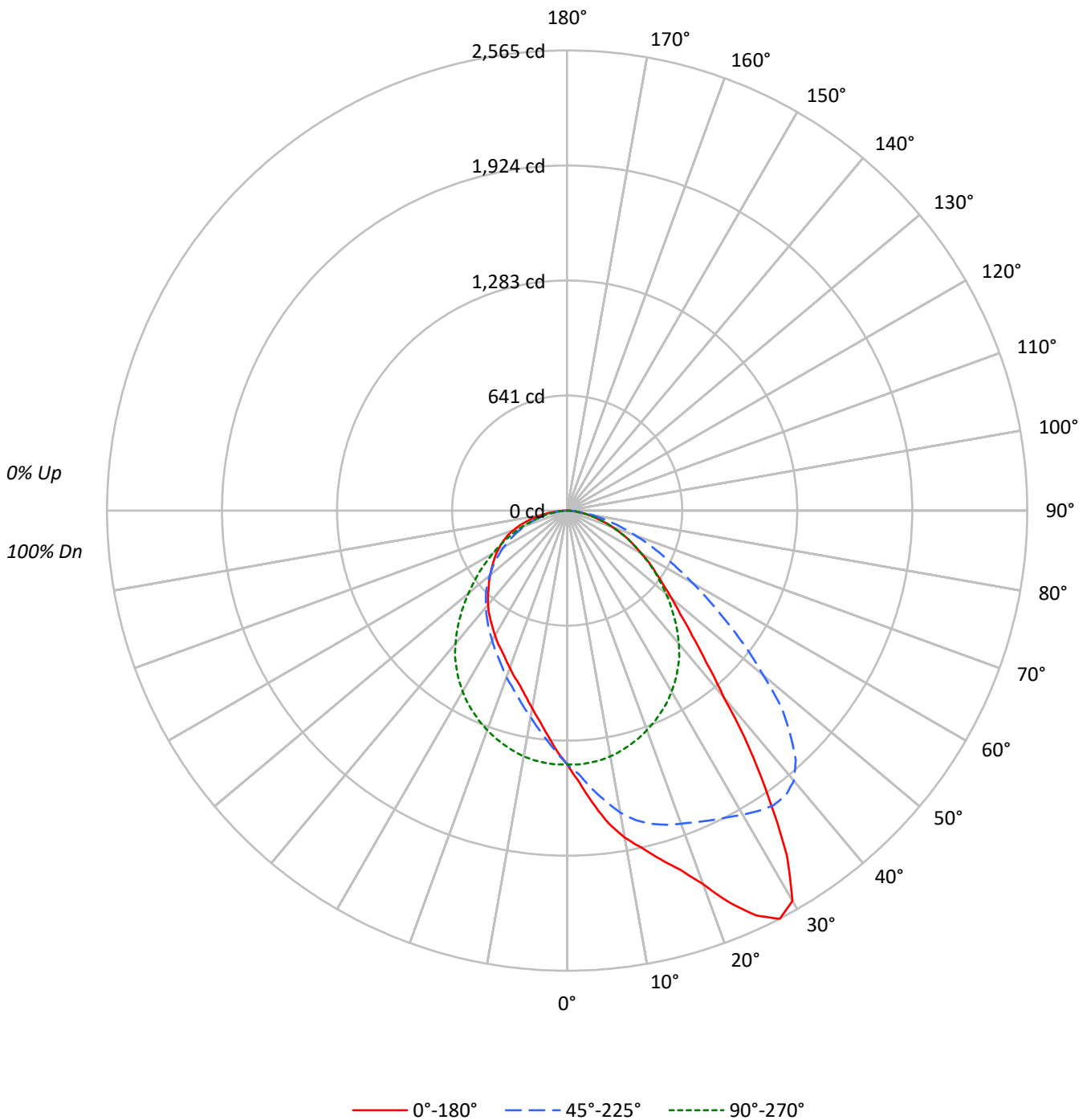
Lumens per Lamp: N/A
Luminaire Lumens: 4029.9 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.22 / 1.53
Luminous Opening: Rectangular (W 3.88' x L: 0.39' x H: 0')
CIE Type: Direct

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°	10050	10050	10050	10050	10050
5°	11675	11086	10072	9164	8951
10°	13358	12344	10039	8437	8077
15°	14809	13298	9948	7869	7442
20°	16766	14047	9849	7486	7061
25°	19524	14933	9722	7100	6763
30°	20611	16061	9562	6861	6597
35°	17044	17397	9328	6686	6458
40°	12608	18237	8990	6544	6363
45°	9913	17670	8500	6415	6225
50°	8395	15781	7950	6238	6201
55°	7474	13520	7404	6040	6224
60°	6782	11460	6797	5795	6357
65°	6286	9798	6229	5496	6539
70°	5648	8377	5575	5135	6577
75°	4819	7085	4896	4693	6486
80°	3942	5726	4011	4085	6053
85°	2716	4020	2854	3229	5146

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 17670 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.6	3.4
10°-20°	408.2	10.1
20°-30°	663.6	16.5
30°-40°	807.3	20.0
40°-50°	738.7	18.3
50°-60°	591.2	14.7
60°-70°	411.7	10.2
70°-80°	218.8	5.4
80°-90°	53.7	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°	1208.3	30.0
0°-40°	2015.6	50.0
0°-60°	3345.6	83.0
0°-90°	4029.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4029.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1414	1414	1414	1414	1414	
5°	1636	1554	1412	1284	1255	163
15°	2013	1807	1352	1069	1011	577
25°	2490	1904	1240	905	862	1137
35°	1964	2005	1075	771	744	1218
45°	986	1758	846	638	619	778
55°	603	1091	598	487	502	544
65°	374	583	370	327	389	368
75°	176	258	178	171	236	190
85°	33	49	35	40	63	43
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°	1414.0	1414.0	1414.0	1414.0	1414.0	1414.0	1414.0	1414.0	1414.0	1414.0	1414.0
2.5°	1513.7	1507.4	1505.7	1506.3	1502.8	1500.0	1493.1	1483.9	1477.6	1469.6	1467.3
5°	1636.4	1621.0	1623.8	1619.2	1611.8	1602.0	1593.4	1579.7	1566.5	1553.9	1537.2
7.5°	1756.8	1754.0	1746.0	1744.8	1732.8	1716.1	1698.9	1680.0	1651.9	1632.4	1610.1
10°	1850.9	1856.6	1845.1	1845.7	1824.5	1807.9	1793.0	1768.3	1736.8	1710.4	1677.7
12.5°	1926.6	1928.9	1927.1	1919.7	1905.9	1877.8	1863.5	1837.7	1803.3	1767.2	1741.9
15°	2012.6	2006.3	1996.5	1987.3	1967.3	1947.2	1917.4	1887.0	1843.4	1807.3	1770.6
17.5°	2098.6	2097.4	2085.4	2065.9	2040.7	2014.3	1969.6	1930.6	1884.1	1836.5	1790.7
20°	2216.7	2210.4	2192.6	2170.3	2123.8	2086.5	2030.9	1977.6	1916.8	1857.2	1803.9
22.5°	2364.6	2344.0	2326.2	2291.8	2238.5	2173.7	2111.2	2033.8	1948.9	1879.0	1812.5
25°	2489.6	2480.5	2461.5	2423.1	2362.3	2284.4	2191.5	2103.7	1997.1	1904.2	1817.6
27.5°	2565.3	2561.3	2549.8	2513.7	2463.3	2385.9	2286.7	2174.8	2053.9	1928.3	1824.5
30°	2511.4	2512.0	2518.3	2514.3	2491.9	2442.0	2353.7	2241.4	2101.5	1957.0	1826.2
32.5°	2279.8	2295.3	2344.6	2368.1	2399.6	2409.9	2370.4	2276.9	2141.6	1985.6	1832.0
35°	1964.4	2002.3	2035.5	2104.3	2186.3	2253.4	2292.4	2262.0	2158.2	2005.1	1834.8
37.5°	1667.4	1664.5	1716.1	1790.7	1877.8	1991.9	2102.6	2163.4	2129.5	2001.1	1829.7
40°	1358.9	1385.3	1417.4	1483.3	1585.4	1725.9	1857.8	1987.9	2034.9	1965.6	1809.6
42.5°	1147.9	1160.0	1192.1	1243.7	1317.1	1460.4	1590.6	1758.0	1878.4	1886.4	1765.4
45°	986.2	999.4	1008.6	1059.6	1127.8	1224.2	1357.8	1526.3	1688.0	1758.0	1693.8
47.5°	856.6	864.1	884.2	915.1	959.8	1045.3	1151.9	1305.0	1481.1	1616.9	1595.2
50°	759.2	764.9	780.9	798.2	834.8	897.9	983.9	1109.5	1278.6	1427.2	1475.9
52.5°	673.2	680.6	688.6	705.3	739.1	781.5	851.5	949.5	1106.6	1258.6	1336.0
55°	603.2	606.1	614.7	627.3	653.1	685.2	740.8	829.7	939.8	1091.1	1197.8
57.5°	542.4	539.6	548.7	557.3	574.5	601.5	641.6	707.6	812.5	941.5	1052.7
60°	477.1	479.9	486.8	493.7	505.7	529.2	560.8	613.5	690.4	806.2	919.7
62.5°	420.9	423.2	424.9	434.6	445.5	462.1	487.9	531.0	594.6	690.4	791.8
65°	373.8	369.8	372.1	379.0	387.6	401.4	425.5	457.0	504.6	582.6	666.8
67.5°	318.8	319.9	320.5	324.5	332.0	345.2	362.4	388.2	427.2	488.5	562.5
70°	271.8	272.4	272.9	276.4	282.7	290.1	302.2	322.2	355.5	403.1	461.0
72.5°	223.6	225.9	225.9	228.8	233.4	237.4	248.8	265.5	290.7	328.5	377.3
75°	175.5	179.5	180.6	184.1	188.1	189.2	197.8	211.0	227.1	258.0	296.4
77.5°	136.5	136.5	138.8	142.8	142.8	146.2	155.4	161.1	173.7	195.0	224.2
80°	96.3	98.0	98.0	99.2	101.5	104.4	108.4	113.5	124.4	139.9	155.4
82.5°	63.1	63.6	64.2	67.1	65.9	68.8	70.5	76.8	82.0	89.4	99.2
85°	33.3	33.3	33.8	35.5	37.3	37.8	39.0	41.9	45.9	49.3	55.0
87.5°	13.8	13.2	13.2	14.3	14.3	14.9	15.5	16.6	18.9	18.9	21.2
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°	1414.0	1414.0	1414.0	1414.0	1414.0	1414.0	1414.0	1414.0	1414.0	1414.0	1414.0
2.5°	1465.6	1461.0	1453.0	1446.1	1437.5	1431.2	1424.9	1416.8	1408.8	1400.2	1391.0
5°	1524.1	1510.3	1494.8	1479.3	1461.0	1446.1	1430.0	1411.7	1396.2	1379.0	1360.6
7.5°	1591.1	1567.1	1540.1	1509.7	1481.1	1455.2	1428.9	1403.6	1380.7	1354.9	1329.7
10°	1655.9	1614.1	1580.2	1539.0	1498.3	1460.4	1424.3	1391.0	1357.8	1325.7	1294.7
12.5°	1700.1	1652.5	1610.1	1562.5	1514.9	1467.3	1419.7	1373.8	1334.3	1295.3	1262.6
15°	1730.5	1697.2	1641.0	1583.7	1521.2	1459.3	1405.4	1352.0	1305.0	1259.7	1220.7
17.5°	1749.4	1706.4	1651.3	1591.1	1522.3	1457.5	1392.7	1329.1	1275.2	1226.5	1182.3
20°	1754.6	1704.1	1646.8	1584.3	1515.5	1444.4	1371.5	1302.2	1243.7	1188.1	1143.3
22.5°	1749.4	1690.9	1629.6	1568.8	1496.5	1424.3	1348.0	1272.3	1205.3	1147.9	1100.9
25°	1740.8	1670.3	1606.0	1534.4	1467.3	1398.5	1319.9	1239.7	1169.7	1110.1	1057.3
27.5°	1729.9	1649.1	1569.9	1499.4	1426.6	1358.9	1286.7	1204.7	1131.9	1066.5	1017.2
30°	1717.3	1621.0	1533.2	1449.5	1380.7	1313.0	1242.5	1165.1	1091.7	1029.2	975.9
32.5°	1703.0	1591.1	1487.9	1397.9	1324.5	1262.0	1196.1	1122.1	1049.9	982.8	936.3
35°	1682.9	1550.4	1439.2	1341.7	1265.5	1197.8	1139.9	1075.1	1003.4	940.9	892.8
37.5°	1659.4	1514.3	1389.9	1284.4	1201.2	1131.9	1078.5	1025.8	958.7	898.5	852.0
40°	1627.8	1470.7	1337.7	1223.6	1134.7	1066.5	1014.3	969.0	913.4	852.6	810.8
42.5°	1586.6	1422.6	1278.6	1157.1	1071.1	998.3	949.5	908.2	860.6	807.9	766.6
45°	1539.5	1367.5	1212.7	1093.4	1000.0	930.6	883.0	845.7	809.6	762.6	724.2
47.5°	1466.1	1302.7	1153.1	1021.2	929.5	862.4	817.6	782.1	755.1	717.9	680.0
50°	1379.0	1229.3	1082.5	950.1	857.2	792.4	750.0	719.0	696.1	667.4	638.7
52.5°	1283.2	1146.8	1005.1	881.3	788.4	727.1	682.3	654.8	639.9	617.0	594.6
55°	1171.4	1053.9	922.0	809.0	717.9	655.4	617.0	597.5	580.8	569.4	549.3
57.5°	1059.0	959.8	842.3	730.5	646.8	591.2	556.8	535.0	522.9	514.9	500.6
60°	936.3	858.4	750.6	653.7	579.1	526.4	496.0	478.2	467.3	462.7	453.0
62.5°	819.4	759.7	661.7	580.8	514.3	467.9	437.5	423.2	416.3	411.1	405.4
65°	704.1	657.1	579.7	504.0	447.8	406.0	381.9	370.4	365.2	359.5	358.9
67.5°	600.3	557.3	495.4	433.5	386.5	350.9	329.7	318.2	312.5	313.1	310.2
70°	498.3	465.0	414.6	364.1	324.0	295.9	275.8	268.3	266.1	265.5	263.2
72.5°	403.1	384.2	340.0	297.6	266.1	244.3	228.2	221.9	219.0	217.9	217.9
75°	319.4	305.6	267.8	235.7	211.6	193.8	182.9	178.3	174.3	176.6	174.9
77.5°	239.7	228.2	202.4	179.5	161.1	146.2	141.1	137.0	134.7	134.2	136.5
80°	168.6	161.7	145.6	127.3	113.5	104.9	101.5	98.0	96.3	95.2	96.3
82.5°	108.4	104.4	92.9	82.0	74.0	69.4	65.9	64.2	61.4	61.9	63.1
85°	59.1	57.9	50.5	47.0	39.6	39.0	36.7	35.0	35.5	34.4	36.1
87.5°	24.1	22.9	21.2	19.5	17.2	15.5	14.3	15.5	13.8	15.5	14.9
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1414.0	1414.0	1414.0	1414.0	1414.0	1414.0	1414.0	1414.0	1414.0	1414.0	1414.0
2.5°	1386.4	1380.1	1372.7	1365.8	1355.5	1348.6	1345.2	1346.3	1342.3	1341.1	1340.6
5°	1349.7	1335.4	1321.6	1310.2	1298.1	1284.4	1274.6	1271.8	1270.6	1267.8	1261.4
7.5°	1311.9	1293.6	1275.8	1259.2	1241.9	1225.9	1216.1	1208.1	1203.5	1195.5	1193.8
10°	1271.8	1249.4	1230.5	1206.4	1185.8	1169.1	1156.5	1149.6	1145.6	1138.2	1131.9
12.5°	1233.3	1209.8	1180.6	1158.8	1137.0	1119.8	1105.5	1094.0	1091.1	1081.4	1076.2
15°	1192.1	1163.4	1137.0	1111.8	1091.1	1069.4	1060.8	1050.4	1040.1	1031.5	1029.8
17.5°	1152.5	1118.1	1092.3	1067.6	1042.4	1026.4	1014.9	1008.0	1000.0	995.4	987.4
20°	1104.9	1076.8	1048.1	1025.2	1003.4	989.7	974.2	967.9	962.1	951.2	947.8
22.5°	1064.8	1030.9	1006.9	983.9	964.4	944.9	934.0	927.7	919.1	913.4	908.8
25°	1022.9	994.8	964.4	941.5	924.9	905.4	897.9	889.9	882.4	877.3	872.7
27.5°	982.2	951.2	926.6	903.7	886.5	872.7	862.4	853.8	848.6	844.6	841.7
30°	939.8	911.1	888.2	867.0	847.5	836.0	826.2	822.8	817.1	814.2	809.6
32.5°	901.4	872.1	850.3	832.0	814.8	803.3	797.6	792.4	786.7	781.5	780.9
35°	857.8	832.6	812.5	792.4	779.8	770.6	764.3	759.2	754.6	750.6	748.3
37.5°	819.4	795.3	772.9	758.6	744.8	736.8	729.9	728.2	723.6	724.2	720.7
40°	778.1	756.3	737.4	723.0	713.9	705.3	700.7	694.9	692.1	692.6	689.8
42.5°	737.9	717.9	700.7	687.5	677.7	671.4	667.4	662.8	659.4	657.1	656.5
45°	697.2	679.5	665.1	651.9	643.9	638.2	633.0	627.3	624.4	623.3	622.7
47.5°	657.1	641.0	625.6	616.4	608.9	603.8	598.6	594.0	591.7	590.0	587.1
50°	615.8	599.8	588.9	577.4	571.1	564.2	558.5	556.2	553.3	552.7	555.6
52.5°	572.8	560.2	550.4	541.3	533.8	526.4	520.6	517.8	519.5	519.5	522.9
55°	532.1	518.9	509.7	502.3	494.3	487.4	481.6	481.6	481.6	485.1	489.7
57.5°	486.8	475.3	468.5	459.9	452.4	447.8	443.8	443.2	445.5	451.3	456.4
60°	440.9	432.9	425.5	418.6	411.1	407.7	407.1	406.0	409.4	415.1	426.0
62.5°	395.6	390.5	381.3	377.9	371.6	367.5	367.5	368.7	373.8	383.0	392.8
65°	352.1	344.6	337.7	334.3	330.3	326.8	326.8	331.4	338.9	347.5	359.5
67.5°	307.3	301.0	296.4	293.0	288.4	286.7	288.4	293.6	302.7	311.3	324.0
70°	259.2	258.0	254.0	249.4	247.1	247.1	248.8	254.6	261.5	274.7	285.5
72.5°	215.0	215.0	212.7	209.9	208.1	209.9	211.0	216.7	225.3	236.8	248.8
75°	174.9	173.2	171.4	170.3	169.7	170.9	172.6	177.2	187.5	198.4	208.1
77.5°	135.3	134.2	132.5	133.6	133.6	134.2	139.3	144.5	150.2	158.8	169.1
80°	97.5	98.0	96.3	95.8	98.6	99.8	103.8	107.8	111.8	121.6	129.0
82.5°	64.2	65.4	64.8	65.9	67.1	67.1	71.7	75.7	79.1	86.0	91.7
85°	36.7	37.3	37.3	39.0	40.1	39.6	43.6	45.9	47.6	52.8	56.2
87.5°	16.1	16.6	17.2	17.2	17.2	19.5	20.1	21.2	21.8	22.9	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



TEST NUMBER: P243684

CATALOG NUMBER: S125DRP-H1270D930-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1414.0	1414.0	1414.0	1414.0
2.5°	1335.4	1334.8	1337.7	1339.4
5°	1257.4	1255.7	1253.4	1254.6
7.5°	1188.1	1183.5	1182.3	1182.3
10°	1126.7	1122.1	1121.0	1119.2
12.5°	1074.5	1067.6	1064.8	1061.9
15°	1025.2	1024.1	1017.8	1011.4
17.5°	979.9	981.6	975.3	972.5
20°	942.1	936.9	934.6	933.5
22.5°	903.7	899.6	899.6	895.6
25°	869.3	865.8	866.4	862.4
27.5°	837.1	836.6	836.0	834.8
30°	807.3	805.0	802.7	803.9
32.5°	778.7	775.2	773.5	772.9
35°	748.8	747.7	745.4	744.3
37.5°	719.6	720.2	717.3	716.7
40°	688.1	687.5	686.9	685.8
42.5°	654.8	653.1	654.2	653.7
45°	621.5	619.8	621.0	619.3
47.5°	588.9	590.0	590.0	590.6
50°	556.8	559.0	559.0	560.8
52.5°	526.9	531.5	531.5	531.0
55°	494.8	500.0	501.7	502.3
57.5°	464.4	469.6	474.8	475.9
60°	431.8	440.9	446.1	447.2
62.5°	402.5	411.1	418.0	418.6
65°	369.8	380.2	386.5	388.8
67.5°	336.6	344.6	353.2	356.6
70°	298.7	308.5	314.2	316.5
72.5°	259.2	270.1	277.5	278.7
75°	221.3	229.4	235.1	236.2
77.5°	178.3	186.3	191.5	192.7
80°	135.3	142.2	145.6	147.9
82.5°	95.8	100.3	102.1	104.4
85°	59.1	62.5	63.1	63.1
87.5°	25.8	26.4	26.4	27.5
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P243684
 CATALOG NUMBER: S125DRP-H1270D930-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	18.85	20.42	19.22	20.74	21.05	18.59	20.17	18.96	20.48	20.79
	3H	20.21	21.62	20.58	21.95	22.31	20.02	21.43	20.40	21.76	22.12
	4H	20.69	22.01	21.08	22.36	22.74	20.51	21.83	20.91	22.18	22.56
	6H	20.99	22.22	21.41	22.59	22.98	20.82	22.05	21.23	22.42	22.81
	8H	21.07	22.24	21.50	22.63	23.03	20.90	22.07	21.33	22.46	22.86
	12H	21.10	22.23	21.53	22.61	23.04	20.94	22.06	21.37	22.44	22.87
4H	2H	20.24	21.57	20.64	21.92	22.29	19.66	20.98	20.06	21.33	21.71
	3H	21.60	22.71	22.01	23.10	23.50	21.31	22.42	21.72	22.82	23.22
	4H	22.10	23.10	22.54	23.51	23.95	21.87	22.87	22.31	23.29	23.72
	6H	22.46	23.32	22.91	23.77	24.22	22.25	23.12	22.71	23.56	24.02
	8H	22.55	23.36	23.01	23.80	24.27	22.35	23.16	22.81	23.60	24.07
	12H	22.60	23.32	23.08	23.80	24.27	22.40	23.13	22.88	23.61	24.08
8H	4H	22.56	23.37	23.02	23.81	24.28	22.23	23.04	22.69	23.48	23.95
	6H	22.99	23.66	23.48	24.15	24.63	22.73	23.40	23.22	23.89	24.37
	8H	23.12	23.72	23.63	24.23	24.71	22.87	23.48	23.39	23.99	24.47
	12H	23.20	23.73	23.71	24.23	24.79	22.97	23.51	23.48	24.00	24.56
12H	4H	22.60	23.33	23.08	23.80	24.27	22.25	22.97	22.73	23.45	23.92
	6H	23.06	23.66	23.57	24.17	24.66	22.78	23.38	23.29	23.89	24.38
	8H	23.23	23.77	23.74	24.26	24.82	22.98	23.51	23.49	24.01	24.57