

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: P242662

Luminaire Tested: S124DRP-S1195D940-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P242662
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-21)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DRP-S1195D940-X4F0-XX-UDD-A-W
Description: DEFINE 4 DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

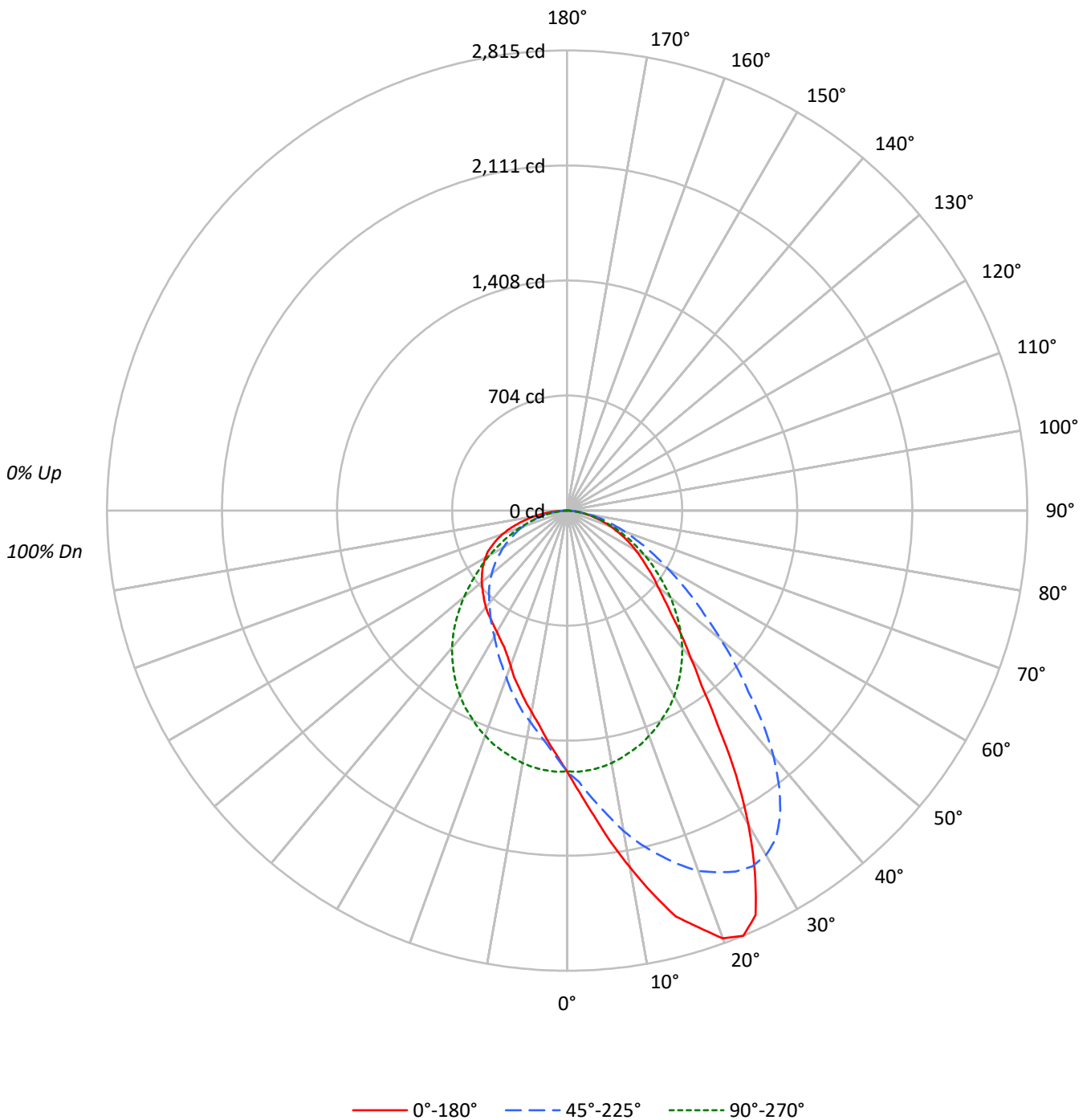
Lumens per Lamp: N/A
Luminaire Lumens: 4401.7 lumens
Efficiency: N/A
Efficacy: 107.1 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.22 / 1.41
Luminous Opening: Rectangular (W 3.88' x L: 0.31' x H: 0')
CIE Type: Direct

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	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	98	95	93	95	92	90	91	89	87	85				85
2	100	92	86	80	98	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	64	62				62
4	84	73	64	58	82	72	64	58	69	62	57	67	61	56	65	60	55	53				53
5	78	65	57	50	76	64	56	50	62	55	50	60	54	49	58	53	49	46				46
6	72	59	51	44	70	58	50	44	56	49	44	55	48	43	53	47	43	41				41
7	67	54	45	39	65	53	45	39	52	44	39	50	44	39	49	43	38	36				36
8	62	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	33				33
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30				30
10	55	42	34	29	54	41	34	29	40	34	29	39	33	29	39	33	29	27				27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	14180	14180	14180	14180	14180
5°	16698	15772	14216	12777	12547
10°	19993	17971	14154	11821	11296
15°	23655	20073	14011	11043	10374
20°	26341	22190	13864	10276	9551
25°	26767	23896	13649	9676	8983
30°	22776	24973	13443	9136	8803
35°	17511	24660	13107	8842	8806
40°	13648	22788	12713	8596	8971
45°	11380	19720	12120	8489	9121
50°	10015	17005	11395	8333	9430
55°	9176	14634	10527	8183	9810
60°	8599	12663	9751	7977	10267
65°	8005	11063	8880	7713	10647
70°	7316	9772	8020	7506	10887
75°	6536	8421	7058	7013	10757
80°	5477	6834	5784	6394	10417
85°	4039	5191	4182	5936	9975

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 55°
 Vertical Angle: 45°
 Luminance: 21771 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.2	3.5
10°-20°	479.2	10.9
20°-30°	761.2	17.3
30°-40°	845.8	19.2
40°-50°	769.3	17.5
50°-60°	628.6	14.3
60°-70°	448.7	10.2
70°-80°	246.9	5.6
80°-90°	66.7	1.5
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°	1395.7	31.7
0°-40°	2241.5	50.9
0°-60°	3639.4	82.7
0°-90°	4401.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4401.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1595	1595	1595	1595	1595	
5°	1871	1768	1593	1432	1406	189
15°	2570	2181	1522	1200	1127	727
25°	2729	2436	1392	987	916	1211
35°	1614	2272	1208	815	812	1021
45°	905	1569	964	675	726	711
55°	592	944	679	528	633	534
65°	381	526	422	367	506	377
75°	190	245	206	204	313	202
85°	40	51	41	58	98	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°	1595.2	1595.2	1595.2	1595.2	1595.2	1595.2	1595.2	1595.2	1595.2	1595.2	1595.2
2.5°	1723.4	1722.7	1716.1	1714.8	1710.1	1704.2	1702.9	1692.3	1671.2	1661.2	1658.6
5°	1871.4	1884.6	1867.4	1864.1	1862.1	1840.3	1829.1	1815.9	1785.5	1767.6	1753.8
7.5°	2044.5	2045.2	2037.9	2030.6	2018.1	1999.6	1974.5	1945.4	1910.4	1874.7	1849.6
10°	2215.0	2220.3	2211.7	2210.4	2176.7	2155.5	2113.2	2077.5	2036.6	1991.0	1949.3
12.5°	2394.7	2384.2	2380.8	2345.8	2346.5	2303.5	2252.7	2215.6	2146.9	2092.7	2033.9
15°	2570.5	2556.0	2546.7	2507.7	2488.6	2435.0	2382.8	2342.5	2259.9	2181.3	2121.8
17.5°	2672.3	2690.1	2666.3	2650.5	2598.3	2563.2	2511.0	2428.4	2367.0	2269.2	2201.1
20°	2784.6	2785.9	2774.0	2757.5	2718.5	2670.9	2612.8	2520.3	2443.0	2345.8	2242.7
22.5°	2815.0	2815.0	2811.7	2796.5	2769.4	2733.1	2674.2	2600.9	2503.1	2395.4	2292.3
25°	2729.1	2726.4	2732.4	2749.6	2738.3	2726.4	2692.7	2635.3	2548.0	2436.4	2325.3
27.5°	2485.9	2503.1	2538.8	2581.1	2611.5	2638.6	2636.6	2612.1	2550.0	2453.5	2335.3
30°	2219.0	2241.4	2266.5	2308.8	2390.8	2437.7	2489.2	2528.2	2506.4	2433.1	2324.7
32.5°	1925.6	1926.9	1967.2	2016.8	2090.1	2191.2	2280.4	2369.6	2407.9	2378.2	2292.3
35°	1613.7	1622.9	1663.2	1710.8	1802.7	1913.0	2035.9	2145.6	2236.1	2272.5	2226.2
37.5°	1352.0	1381.1	1411.5	1465.6	1549.6	1649.3	1781.5	1918.3	2051.1	2131.7	2140.3
40°	1176.2	1192.7	1213.2	1252.2	1320.9	1418.7	1528.4	1691.0	1834.4	1963.9	2006.2
42.5°	1037.5	1045.4	1056.0	1090.3	1138.6	1235.7	1333.5	1471.6	1615.6	1776.9	1854.9
45°	905.3	915.2	936.3	956.8	996.5	1063.9	1157.1	1274.7	1419.4	1568.7	1699.6
47.5°	806.2	812.8	826.0	848.5	884.1	929.7	1009.0	1108.8	1250.2	1394.9	1535.0
50°	724.2	729.5	739.4	759.3	785.0	824.7	886.8	978.6	1083.7	1229.7	1366.5
52.5°	659.5	660.8	667.4	679.3	698.5	730.2	778.4	850.4	946.3	1072.5	1208.6
55°	592.1	594.7	601.3	611.2	629.1	650.2	689.2	746.0	831.3	944.3	1062.6
57.5°	536.6	539.2	544.5	548.5	564.3	582.2	613.9	654.8	721.6	822.0	929.7
60°	483.7	482.4	489.0	492.3	502.2	516.7	539.9	578.9	635.0	712.3	809.5
62.5°	432.2	430.2	435.5	440.1	444.7	456.6	474.5	502.9	545.8	613.9	694.5
65°	380.6	378.0	381.3	386.6	391.9	398.5	412.3	439.4	475.8	526.0	590.1
67.5°	327.8	331.1	331.1	334.4	337.7	346.9	356.8	378.0	403.7	444.7	501.5
70°	281.5	282.2	284.8	284.8	286.8	294.7	302.6	313.9	339.0	376.0	420.3
72.5°	235.2	238.5	236.6	239.2	240.5	245.2	250.4	261.0	281.5	306.6	342.3
75°	190.3	192.3	192.3	193.0	194.9	196.9	201.5	209.5	224.7	245.2	270.9
77.5°	146.7	146.7	148.0	150.7	150.7	154.0	157.9	163.9	172.5	187.7	204.2
80°	107.0	108.4	107.7	109.0	109.0	111.7	113.0	120.9	124.2	133.5	146.0
82.5°	71.4	72.7	72.7	74.7	76.0	76.0	78.0	80.0	83.3	91.2	94.5
85°	39.6	41.0	39.6	41.0	43.0	43.6	45.6	46.3	48.9	50.9	55.5
87.5°	14.5	16.5	16.5	17.2	18.5	19.2	19.8	19.2	21.8	22.5	25.1
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°	1595.2	1595.2	1595.2	1595.2	1595.2	1595.2	1595.2	1595.2	1595.2	1595.2	1595.2
2.5°	1659.3	1650.0	1643.4	1638.1	1623.6	1615.0	1608.4	1599.1	1588.6	1577.3	1563.4
5°	1739.9	1717.4	1700.9	1675.8	1652.0	1632.2	1611.7	1593.2	1570.7	1546.3	1528.4
7.5°	1822.5	1791.4	1749.8	1717.4	1678.4	1644.7	1615.0	1583.9	1550.9	1519.2	1489.4
10°	1900.5	1857.5	1809.9	1753.8	1700.9	1654.0	1610.4	1568.1	1527.1	1486.1	1451.1
12.5°	1984.4	1928.2	1852.2	1784.1	1723.4	1656.6	1601.8	1547.6	1496.0	1452.4	1410.1
15°	2057.7	1980.4	1899.1	1811.2	1733.3	1659.9	1587.9	1522.5	1467.0	1410.1	1370.5
17.5°	2104.0	2008.2	1920.9	1829.1	1739.2	1647.4	1572.7	1499.3	1430.6	1375.1	1325.6
20°	2149.6	2054.4	1938.8	1846.9	1734.6	1639.4	1549.6	1465.6	1393.0	1332.8	1281.3
22.5°	2189.2	2075.6	1959.9	1831.7	1720.1	1617.6	1517.2	1432.6	1357.9	1293.8	1244.9
25°	2198.5	2072.3	1946.7	1826.4	1699.6	1580.0	1490.8	1391.6	1312.3	1245.6	1192.7
27.5°	2201.8	2068.3	1928.9	1798.0	1667.2	1558.2	1441.9	1355.3	1273.4	1202.6	1152.4
30°	2194.5	2053.8	1901.1	1756.4	1624.9	1504.0	1406.2	1309.7	1225.8	1155.7	1102.9
32.5°	2171.4	2023.4	1865.4	1710.1	1572.7	1455.1	1353.3	1262.8	1181.5	1112.8	1056.6
35°	2122.5	1977.8	1810.6	1651.3	1511.9	1392.3	1301.1	1207.9	1126.0	1060.6	1007.1
37.5°	2057.1	1922.3	1752.4	1586.6	1452.4	1330.8	1239.0	1153.1	1079.1	1011.7	956.2
40°	1965.9	1850.9	1680.4	1519.8	1371.8	1257.5	1172.9	1095.6	1022.3	959.5	907.3
42.5°	1860.8	1764.3	1610.4	1437.9	1296.5	1181.5	1099.6	1032.2	964.1	907.3	855.1
45°	1731.9	1665.9	1517.8	1360.6	1211.9	1103.5	1024.9	964.1	906.0	849.1	805.5
47.5°	1588.6	1551.5	1422.7	1272.0	1129.3	1020.9	952.9	894.7	841.9	792.3	753.3
50°	1443.8	1428.0	1320.3	1176.2	1041.4	941.0	872.3	824.0	780.4	738.1	701.8
52.5°	1301.1	1304.4	1209.9	1081.1	958.8	863.0	794.9	750.7	714.3	681.9	650.2
55°	1155.1	1173.6	1097.6	980.0	868.3	781.1	719.6	679.3	652.9	624.5	600.0
57.5°	1020.9	1052.0	985.9	878.2	783.7	700.4	646.3	615.2	586.1	567.6	548.5
60°	890.1	919.2	870.3	783.0	695.2	626.4	575.6	548.5	524.0	512.1	499.6
62.5°	773.8	798.9	765.9	686.6	613.2	547.8	506.8	481.1	466.5	453.3	446.0
65°	664.1	685.9	654.8	596.0	530.6	477.8	442.7	422.2	406.4	401.1	391.9
67.5°	555.7	575.6	559.0	507.5	452.0	410.4	382.6	360.8	351.5	346.3	340.3
70°	461.2	481.1	463.2	419.6	379.3	345.6	319.8	308.6	298.7	296.7	287.4
72.5°	381.3	393.2	375.3	343.6	310.6	283.5	265.0	253.1	249.1	245.2	241.2
75°	298.0	309.9	298.0	271.6	247.1	227.3	210.1	205.5	199.6	197.6	194.3
77.5°	223.3	234.6	225.3	207.5	188.3	171.8	161.9	155.3	154.6	150.7	152.0
80°	161.2	167.8	159.3	148.0	133.5	122.9	116.3	113.0	109.0	107.7	110.4
82.5°	104.4	106.4	103.1	96.5	86.6	80.6	76.7	72.7	72.7	73.3	72.7
85°	60.1	59.5	58.8	52.2	48.9	44.3	41.6	41.0	40.3	41.6	43.0
87.5°	25.1	25.8	25.1	22.5	20.5	18.5	17.8	17.2	17.8	18.5	19.2
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1595.2	1595.2	1595.2	1595.2	1595.2	1595.2	1595.2	1595.2	1595.2	1595.2	1595.2
2.5°	1556.8	1550.9	1542.3	1530.4	1520.5	1509.9	1507.3	1503.3	1511.2	1504.6	1502.7
5°	1513.2	1499.3	1481.5	1461.0	1449.1	1431.9	1428.6	1422.0	1415.4	1414.8	1408.2
7.5°	1467.6	1448.5	1426.0	1404.9	1386.4	1367.8	1356.0	1354.6	1344.1	1338.8	1332.2
10°	1424.0	1398.9	1371.8	1352.0	1329.5	1309.7	1295.8	1287.9	1281.3	1274.0	1267.4
12.5°	1372.5	1345.4	1324.2	1302.4	1274.7	1260.8	1235.7	1220.5	1220.5	1222.5	1202.6
15°	1334.8	1308.4	1274.0	1243.6	1229.1	1200.0	1187.5	1171.6	1161.7	1151.8	1143.8
17.5°	1288.6	1256.2	1229.7	1195.4	1168.3	1146.5	1129.3	1120.7	1104.9	1090.3	1080.4
20°	1245.6	1210.6	1182.2	1145.2	1114.8	1086.3	1072.5	1059.3	1048.0	1036.1	1024.9
22.5°	1202.0	1165.0	1128.6	1093.0	1065.2	1034.8	1021.6	1002.4	991.9	986.6	975.3
25°	1155.7	1116.1	1076.4	1042.1	1013.0	986.6	968.7	954.9	943.0	937.7	930.4
27.5°	1105.5	1066.5	1028.9	989.2	955.5	936.3	921.8	910.6	903.3	895.4	892.1
30°	1057.9	1017.0	976.0	939.7	909.3	890.1	876.9	869.6	864.3	861.0	857.7
32.5°	1009.7	969.4	925.8	893.4	867.0	850.4	841.2	833.9	831.9	831.3	830.6
35°	957.5	916.5	876.9	847.1	821.4	814.8	806.2	802.2	800.9	805.5	807.5
37.5°	907.3	868.9	831.9	802.2	785.0	774.5	771.1	770.5	775.1	779.1	783.7
40°	859.0	822.0	787.7	762.6	746.7	740.8	739.4	742.7	748.0	752.6	757.9
42.5°	812.1	775.8	745.4	722.3	712.3	707.1	708.4	711.7	719.6	725.6	734.1
45°	763.2	732.8	702.4	683.3	674.0	675.3	675.3	681.3	688.5	697.1	705.7
47.5°	717.6	686.6	660.8	644.3	639.7	637.7	641.0	648.9	658.8	668.7	680.6
50°	671.4	642.3	620.5	606.0	600.7	602.6	607.9	615.2	627.8	641.0	653.5
52.5°	624.5	598.7	578.9	565.6	562.3	566.3	571.6	584.1	594.7	609.3	625.1
55°	575.6	553.1	537.2	527.3	526.0	528.0	533.9	546.5	562.3	580.2	594.7
57.5°	527.3	508.2	493.0	485.7	486.3	487.7	496.9	512.1	528.0	547.1	565.6
60°	478.4	461.2	449.3	444.1	444.7	448.7	460.6	474.5	495.6	514.1	533.9
62.5°	432.2	417.6	406.4	401.8	400.4	410.4	421.6	436.1	457.3	478.4	500.2
65°	381.9	370.0	360.8	358.2	360.1	366.7	381.3	400.4	418.3	440.1	462.6
67.5°	333.0	323.1	316.5	317.8	319.8	329.1	341.6	358.2	378.0	400.4	423.6
70°	286.8	277.5	272.2	272.9	276.9	288.8	299.3	315.9	337.7	360.8	379.3
72.5°	239.2	233.9	229.3	232.6	236.6	243.8	257.7	274.2	292.7	313.9	333.7
75°	191.0	191.0	188.3	190.3	196.3	204.2	214.1	231.3	250.4	267.6	283.5
77.5°	150.0	148.0	149.3	151.3	155.3	165.2	176.4	189.0	204.2	222.0	235.2
80°	108.4	109.0	112.3	116.3	117.6	124.9	136.8	148.0	159.3	173.8	186.3
82.5°	74.7	75.3	76.7	81.9	83.3	91.2	97.8	109.0	118.9	127.5	137.4
85°	44.3	44.3	47.6	49.6	52.9	58.2	62.8	69.4	78.6	85.2	95.2
87.5°	21.1	21.1	23.8	25.1	27.1	30.4	31.7	39.0	41.6	44.9	50.9
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: P242662

CATALOG NUMBER: S124DRP-S1195D940-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1595.2	1595.2	1595.2	1595.2
2.5°	1501.3	1500.0	1495.4	1494.7
5°	1404.2	1400.9	1398.9	1406.2
7.5°	1330.8	1328.2	1322.3	1320.3
10°	1260.8	1258.2	1252.9	1251.5
12.5°	1193.4	1187.5	1187.5	1189.4
15°	1135.2	1132.6	1125.3	1127.3
17.5°	1075.8	1073.1	1063.2	1073.1
20°	1020.3	1015.0	1010.4	1009.7
22.5°	967.4	962.8	963.4	958.2
25°	925.1	920.5	919.2	915.9
27.5°	890.8	888.1	885.5	886.8
30°	859.7	859.0	857.7	857.7
32.5°	833.9	833.9	835.2	835.2
35°	810.1	812.1	813.4	811.5
37.5°	789.0	790.3	792.3	794.3
40°	763.9	768.5	769.8	773.1
42.5°	740.1	745.4	749.3	749.3
45°	715.6	720.9	725.6	725.6
47.5°	690.5	697.8	702.4	703.1
50°	664.8	674.0	678.6	681.9
52.5°	639.7	648.9	655.5	656.8
55°	609.9	623.1	630.4	633.0
57.5°	583.5	595.4	603.3	605.3
60°	551.8	565.0	575.6	577.5
62.5°	519.4	533.3	542.5	548.5
65°	481.1	494.9	504.2	506.2
67.5°	440.8	455.3	461.2	465.2
70°	397.8	409.0	415.6	418.9
72.5°	348.9	360.8	368.7	368.7
75°	298.7	309.3	313.2	313.2
77.5°	246.5	252.4	257.7	259.0
80°	196.3	199.6	203.5	203.5
82.5°	144.7	147.4	151.3	150.7
85°	93.8	99.8	99.1	97.8
87.5°	52.9	53.5	55.5	56.8
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P242662
 CATALOG NUMBER: S124DRP-S1195D940-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	19.18	20.74	19.54	21.06	21.37	20.09	21.65	20.46	21.97	22.28
	3H	20.66	22.07	21.04	22.40	22.76	21.46	22.86	21.84	23.19	23.55
	4H	21.20	22.52	21.60	22.87	23.25	21.93	23.25	22.33	23.60	23.98
	6H	21.56	22.79	21.97	23.15	23.54	22.24	23.46	22.65	23.83	24.22
	8H	21.66	22.83	22.09	23.22	23.62	22.32	23.48	22.74	23.87	24.27
	12H	21.72	22.83	22.15	23.22	23.64	22.36	23.48	22.79	23.86	24.29
4H	2H	20.34	21.66	20.74	22.01	22.39	20.78	22.10	21.18	22.45	22.82
	3H	21.87	22.97	22.28	23.37	23.77	22.48	23.59	22.89	23.99	24.39
	4H	22.46	23.45	22.89	23.87	24.31	23.07	24.07	23.51	24.48	24.92
	6H	22.88	23.75	23.34	24.19	24.65	23.47	24.34	23.93	24.78	25.24
	8H	23.01	23.82	23.47	24.26	24.73	23.58	24.39	24.04	24.83	25.30
	12H	23.09	23.81	23.57	24.29	24.76	23.64	24.37	24.12	24.84	25.31
8H	4H	22.91	23.72	23.38	24.17	24.63	23.39	24.20	23.85	24.64	25.11
	6H	23.42	24.09	23.91	24.58	25.06	23.92	24.59	24.41	25.08	25.55
	8H	23.59	24.19	24.10	24.70	25.19	24.08	24.68	24.59	25.19	25.68
	12H	23.71	24.25	24.22	24.74	25.30	24.19	24.73	24.70	25.22	25.78
12H	4H	22.96	23.69	23.44	24.17	24.64	23.42	24.15	23.90	24.62	25.09
	6H	23.49	24.10	24.01	24.61	25.09	23.97	24.58	24.48	25.09	25.57
	8H	23.71	24.25	24.22	24.74	25.30	24.19	24.73	24.70	25.22	25.78