

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: P242637

Luminaire Tested: S124DRP-S1195D830-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P242637
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-S1195D830-X4F0-XX-UDD-A-W
Description: DEFINE 4 DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

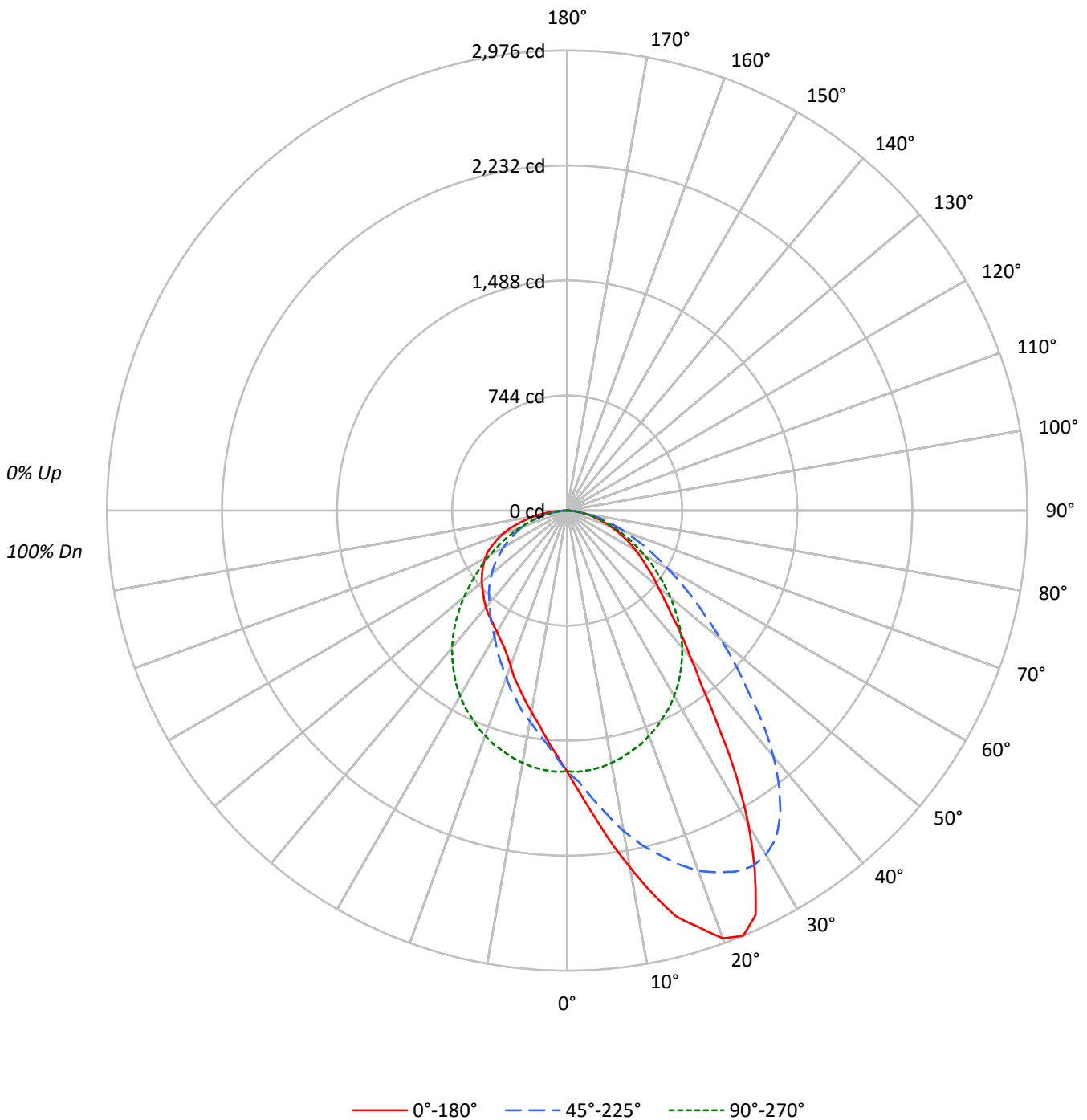
Lumens per Lamp: N/A
Luminaire Lumens: 4652.6 lumens
Efficiency: N/A
Efficacy: 113.2 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.22 / 1.41
Luminous Opening: Rectangular (W 3.88' x L: 0.31' x H: 0')
CIE Type: Direct

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	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				
2	100	92	86	80	98	90	84	79	87	82	78	84	79	76	81	77	74					72				
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64					62				
4	84	73	64	58	82	72	64	58	69	62	57	67	61	56	65	60	55					53				
5	78	65	57	50	76	64	56	50	62	55	50	60	54	49	58	53	49					46				
6	72	59	51	44	70	58	50	44	56	49	44	55	48	43	53	47	43					41				
7	67	54	45	39	65	53	45	39	52	44	39	50	44	39	49	43	38					36				
8	62	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35					33				
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31					30				
10	55	42	34	29	54	41	34	29	40	34	29	39	33	29	39	33	29					27				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	14988	14988	14988	14988	14988
5°	17650	16671	15026	13506	13262
10°	21133	18995	14961	12496	11941
15°	25003	21217	14810	11672	10966
20°	27842	23455	14654	10862	10096
25°	28293	25257	14427	10228	9495
30°	24073	26396	14210	9656	9305
35°	18509	26065	13855	9345	9307
40°	14427	24087	13438	9086	9483
45°	12029	20845	12811	8973	9641
50°	10586	17975	12045	8809	9968
55°	9698	15468	11127	8649	10369
60°	9090	13385	10306	8432	10853
65°	8462	11694	9387	8152	11253
70°	7732	10328	8478	7932	11508
75°	6910	8899	7460	7411	11371
80°	5795	7223	6112	6757	11011
85°	4273	5487	4416	6272	10546

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 55°
 Vertical Angle: 45°
 Luminance: 23013 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.1	3.5
10°-20°	506.5	10.9
20°-30°	804.6	17.3
30°-40°	894.1	19.2
40°-50°	813.1	17.5
50°-60°	664.4	14.3
60°-70°	474.3	10.2
70°-80°	261.0	5.6
80°-90°	70.5	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°	1475.2	31.7
0°-40°	2369.3	50.9
0°-60°	3846.8	82.7
0°-90°	4652.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4652.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1686	1686	1686	1686	1686	
5°	1978	1868	1684	1514	1486	200
15°	2717	2306	1609	1268	1192	768
25°	2885	2575	1471	1043	968	1280
35°	1706	2402	1277	861	858	1080
45°	957	1658	1019	714	767	752
55°	626	998	718	558	669	565
65°	402	556	446	388	535	398
75°	201	259	217	216	331	214
85°	42	54	43	62	103	51
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°	1686.1	1686.1	1686.1	1686.1	1686.1	1686.1	1686.1	1686.1	1686.1	1686.1	1686.1
2.5°	1821.6	1820.9	1813.9	1812.5	1807.6	1801.3	1799.9	1788.8	1766.4	1755.9	1753.1
5°	1978.1	1992.0	1973.9	1970.4	1968.3	1945.2	1933.4	1919.4	1887.3	1868.4	1853.7
7.5°	2161.1	2161.7	2154.1	2146.4	2133.1	2113.6	2087.0	2056.3	2019.3	1981.5	1955.0
10°	2341.3	2346.8	2337.8	2336.4	2300.7	2278.4	2233.7	2196.0	2152.7	2104.5	2060.5
12.5°	2531.2	2520.1	2516.6	2479.6	2480.2	2434.8	2381.1	2342.0	2269.3	2212.0	2149.9
15°	2717.0	2701.7	2691.9	2650.7	2630.4	2573.8	2518.7	2476.1	2388.7	2305.6	2242.8
17.5°	2824.6	2843.5	2818.3	2801.5	2746.4	2709.3	2654.2	2566.9	2501.9	2398.5	2326.6
20°	2943.3	2944.7	2932.2	2914.7	2873.5	2823.2	2761.7	2663.9	2582.2	2479.6	2370.6
22.5°	2975.5	2975.5	2972.0	2955.9	2927.3	2888.9	2826.7	2749.2	2645.8	2531.9	2423.0
25°	2884.7	2881.9	2888.2	2906.3	2894.4	2881.9	2846.2	2785.5	2693.3	2575.2	2457.9
27.5°	2627.6	2645.8	2683.5	2728.2	2760.3	2789.0	2786.9	2761.0	2695.4	2593.4	2468.4
30°	2345.4	2369.2	2395.7	2440.4	2527.0	2576.6	2631.1	2672.3	2649.3	2571.7	2457.2
32.5°	2035.3	2036.7	2079.3	2131.7	2209.2	2316.1	2410.4	2504.7	2545.2	2513.8	2423.0
35°	1705.7	1715.4	1758.0	1808.3	1905.4	2022.1	2152.0	2267.9	2363.6	2402.0	2353.1
37.5°	1429.1	1459.8	1491.9	1549.2	1637.9	1743.4	1883.1	2027.6	2168.0	2253.2	2262.3
40°	1243.3	1260.7	1282.4	1323.6	1396.2	1499.6	1615.5	1787.4	1938.9	2075.8	2120.5
42.5°	1096.6	1105.0	1116.1	1152.5	1203.5	1306.1	1409.5	1555.5	1707.7	1878.2	1960.6
45°	956.9	967.4	989.7	1011.4	1053.3	1124.5	1223.0	1347.3	1500.3	1658.2	1796.5
47.5°	852.1	859.1	873.1	896.8	934.5	982.7	1066.6	1172.0	1321.5	1474.5	1622.5
50°	765.5	771.1	781.6	802.5	829.8	871.7	937.3	1034.4	1145.5	1299.8	1444.4
52.5°	697.1	698.5	705.4	718.0	738.3	771.8	822.8	898.9	1000.2	1133.6	1277.5
55°	625.8	628.6	635.6	646.1	664.9	687.3	728.5	788.6	878.7	998.1	1123.1
57.5°	567.2	569.9	575.5	579.7	596.5	615.3	648.9	692.2	762.7	868.9	982.7
60°	511.3	509.9	516.9	520.4	530.8	546.2	570.6	611.9	671.2	752.9	855.6
62.5°	456.8	454.7	460.3	465.2	470.1	482.6	501.5	531.5	576.9	648.9	734.1
65°	402.3	399.5	403.0	408.6	414.2	421.2	435.8	464.5	502.9	556.0	623.7
67.5°	346.4	349.9	349.9	353.4	356.9	366.7	377.2	399.5	426.8	470.1	530.1
70°	297.5	298.2	301.0	301.0	303.1	311.5	319.9	331.8	358.3	397.4	444.2
72.5°	248.7	252.1	250.1	252.8	254.2	259.1	264.7	275.9	297.5	324.1	361.8
75°	201.2	203.3	203.3	204.0	206.0	208.1	213.0	221.4	237.5	259.1	286.4
77.5°	155.1	155.1	156.5	159.2	159.2	162.7	166.9	173.2	182.3	198.4	215.8
80°	113.2	114.5	113.8	115.2	115.2	118.0	119.4	127.8	131.3	141.1	154.4
82.5°	75.4	76.8	76.8	78.9	80.3	80.3	82.4	84.5	88.0	96.4	99.9
85°	41.9	43.3	41.9	43.3	45.4	46.1	48.2	48.9	51.7	53.8	58.7
87.5°	15.4	17.5	17.5	18.2	19.6	20.3	21.0	20.3	23.0	23.7	26.5
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°	1686.1	1686.1	1686.1	1686.1	1686.1	1686.1	1686.1	1686.1	1686.1	1686.1	1686.1
2.5°	1753.8	1744.1	1737.1	1731.5	1716.1	1707.0	1700.1	1690.3	1679.1	1667.2	1652.6
5°	1839.1	1815.3	1797.8	1771.3	1746.2	1725.2	1703.6	1684.0	1660.3	1634.4	1615.5
7.5°	1926.4	1893.5	1849.5	1815.3	1774.1	1738.5	1707.0	1674.2	1639.3	1605.8	1574.3
10°	2008.8	1963.4	1913.1	1853.7	1797.8	1748.3	1702.2	1657.5	1614.2	1570.8	1533.8
12.5°	2097.5	2038.1	1957.8	1885.9	1821.6	1751.1	1693.1	1635.8	1581.3	1535.2	1490.5
15°	2175.0	2093.3	2007.4	1914.5	1832.1	1754.5	1678.4	1609.3	1550.6	1490.5	1448.6
17.5°	2223.9	2122.6	2030.4	1933.4	1838.4	1741.3	1662.3	1584.8	1512.2	1453.5	1401.1
20°	2272.1	2171.5	2049.3	1952.2	1833.5	1732.9	1637.9	1549.2	1472.4	1408.8	1354.3
22.5°	2314.0	2193.9	2071.6	1936.1	1818.1	1709.8	1603.7	1514.3	1435.3	1367.6	1315.9
25°	2323.8	2190.4	2057.7	1930.6	1796.5	1670.0	1575.7	1471.0	1387.2	1316.6	1260.7
27.5°	2327.3	2186.2	2038.8	1900.5	1762.2	1647.0	1524.1	1432.6	1345.9	1271.2	1218.1
30°	2319.6	2170.8	2009.5	1856.5	1717.5	1589.7	1486.3	1384.4	1295.7	1221.6	1165.7
32.5°	2295.2	2138.7	1971.8	1807.6	1662.3	1538.0	1430.5	1334.8	1248.9	1176.2	1116.8
35°	2243.5	2090.5	1913.8	1745.5	1598.1	1471.7	1375.3	1276.8	1190.2	1121.0	1064.5
37.5°	2174.3	2031.8	1852.3	1677.0	1535.2	1406.7	1309.6	1218.8	1140.6	1069.3	1010.7
40°	2077.9	1956.4	1776.2	1606.5	1450.0	1329.2	1239.8	1158.1	1080.5	1014.2	959.0
42.5°	1966.9	1864.9	1702.2	1519.9	1370.4	1248.9	1162.2	1091.0	1019.1	959.0	903.8
45°	1830.7	1760.8	1604.4	1438.1	1281.0	1166.4	1083.3	1019.1	957.6	897.5	851.4
47.5°	1679.1	1640.0	1503.8	1344.5	1193.7	1079.1	1007.2	945.7	889.8	837.5	796.2
50°	1526.1	1509.4	1395.5	1243.3	1100.8	994.6	922.0	871.0	824.9	780.2	741.8
52.5°	1375.3	1378.8	1278.9	1142.7	1013.5	912.2	840.3	793.5	755.0	720.8	687.3
55°	1220.9	1240.5	1160.2	1035.8	917.8	825.6	760.6	718.0	690.1	660.0	634.2
57.5°	1079.1	1112.0	1042.1	928.3	828.4	740.4	683.1	650.3	619.5	600.0	579.7
60°	940.8	971.6	919.9	827.7	734.8	662.1	608.4	579.7	553.9	541.3	528.0
62.5°	817.9	844.4	809.5	725.7	648.2	579.0	535.7	508.5	493.1	479.1	471.5
65°	702.0	725.0	692.2	630.0	560.9	505.0	468.0	446.3	429.6	424.0	414.2
67.5°	587.4	608.4	590.9	536.4	477.7	433.7	404.4	381.4	371.6	366.0	359.7
70°	487.5	508.5	489.6	443.5	400.9	365.3	338.1	326.2	315.7	313.6	303.8
72.5°	403.0	415.6	396.7	363.2	328.3	299.6	280.1	267.5	263.3	259.1	254.9
75°	315.0	327.6	315.0	287.1	261.2	240.3	222.1	217.2	210.9	208.8	205.3
77.5°	236.1	248.0	238.2	219.3	199.1	181.6	171.1	164.1	163.4	159.2	160.6
80°	170.4	177.4	168.3	156.5	141.1	129.9	122.9	119.4	115.2	113.8	116.6
82.5°	110.4	112.5	109.0	102.0	91.5	85.2	81.0	76.8	76.8	77.5	76.8
85°	63.6	62.9	62.2	55.2	51.7	46.8	44.0	43.3	42.6	44.0	45.4
87.5°	26.5	27.2	26.5	23.7	21.7	19.6	18.9	18.2	18.9	19.6	20.3
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°	1686.1	1686.1	1686.1	1686.1	1686.1	1686.1	1686.1	1686.1	1686.1	1686.1	1686.1
2.5°	1645.6	1639.3	1630.2	1617.6	1607.2	1596.0	1593.2	1589.0	1597.4	1590.4	1588.3
5°	1599.5	1584.8	1566.0	1544.3	1531.7	1513.6	1510.1	1503.1	1496.1	1495.4	1488.4
7.5°	1551.3	1531.0	1507.3	1484.9	1465.4	1445.8	1433.2	1431.9	1420.7	1415.1	1408.1
10°	1505.2	1478.6	1450.0	1429.1	1405.3	1384.4	1369.7	1361.3	1354.3	1346.6	1339.7
12.5°	1450.7	1422.1	1399.7	1376.7	1347.3	1332.7	1306.1	1290.1	1290.1	1292.2	1271.2
15°	1410.9	1383.0	1346.6	1314.5	1299.1	1268.4	1255.1	1238.4	1227.9	1217.4	1209.0
17.5°	1362.0	1327.8	1299.8	1263.5	1234.9	1211.8	1193.7	1184.6	1167.8	1152.5	1142.0
20°	1316.6	1279.6	1249.6	1210.4	1178.3	1148.3	1133.6	1119.6	1107.8	1095.2	1083.3
22.5°	1270.5	1231.4	1193.0	1155.3	1125.9	1093.8	1079.8	1059.6	1048.4	1042.8	1030.9
25°	1221.6	1179.7	1137.8	1101.5	1070.7	1042.8	1023.9	1009.3	996.7	991.1	983.4
27.5°	1168.5	1127.3	1087.5	1045.6	1010.0	989.7	974.4	962.5	954.8	946.4	942.9
30°	1118.2	1074.9	1031.6	993.2	961.1	940.8	926.9	919.2	913.6	910.1	906.6
32.5°	1067.3	1024.6	978.5	944.3	916.4	898.9	889.1	881.5	879.4	878.7	878.0
35°	1012.1	968.8	926.9	895.4	868.2	861.2	852.1	847.9	846.5	851.4	853.5
37.5°	959.0	918.5	879.4	847.9	829.8	818.6	815.1	814.4	819.3	823.5	828.4
40°	908.0	868.9	832.6	806.0	789.3	783.0	781.6	785.1	790.7	795.6	801.1
42.5°	858.4	820.0	787.9	763.4	752.9	747.4	748.8	752.2	760.6	766.9	776.0
45°	806.7	774.6	742.5	722.2	712.4	713.8	713.8	720.1	727.8	736.9	746.0
47.5°	758.5	725.7	698.5	681.0	676.1	674.0	677.5	685.9	696.4	706.8	719.4
50°	709.6	678.9	655.9	640.5	634.9	637.0	642.6	650.3	663.5	677.5	690.8
52.5°	660.0	632.8	611.9	597.9	594.4	598.6	604.2	617.4	628.6	644.0	660.7
55°	608.4	584.6	567.9	557.4	556.0	558.1	564.4	577.6	594.4	613.3	628.6
57.5°	557.4	537.1	521.1	513.4	514.1	515.5	525.2	541.3	558.1	578.3	597.9
60°	505.7	487.5	475.0	469.4	470.1	474.3	486.8	501.5	523.8	543.4	564.4
62.5°	456.8	441.4	429.6	424.7	423.3	433.7	445.6	461.0	483.3	505.7	528.7
65°	403.7	391.1	381.4	378.6	380.7	387.6	403.0	423.3	442.1	465.2	488.9
67.5°	352.0	341.5	334.6	336.0	338.1	347.8	361.1	378.6	399.5	423.3	447.7
70°	303.1	293.4	287.8	288.5	292.7	305.2	316.4	333.9	356.9	381.4	400.9
72.5°	252.8	247.3	242.4	245.9	250.1	257.7	272.4	289.9	309.4	331.8	352.7
75°	201.9	201.9	199.1	201.2	207.4	215.8	226.3	244.5	264.7	282.9	299.6
77.5°	158.6	156.5	157.9	159.9	164.1	174.6	186.5	199.8	215.8	234.7	248.7
80°	114.5	115.2	118.7	122.9	124.3	132.0	144.6	156.5	168.3	183.7	197.0
82.5°	78.9	79.6	81.0	86.6	88.0	96.4	103.4	115.2	125.7	134.8	145.3
85°	46.8	46.8	50.3	52.4	55.9	61.5	66.4	73.3	83.1	90.1	100.6
87.5°	22.4	22.4	25.1	26.5	28.6	32.1	33.5	41.2	44.0	47.5	53.8
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: P242637

CATALOG NUMBER: S124DRP-S1195D830-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1686.1	1686.1	1686.1	1686.1
2.5°	1586.9	1585.5	1580.6	1579.9
5°	1484.2	1480.7	1478.6	1486.3
7.5°	1406.7	1403.9	1397.6	1395.5
10°	1332.7	1329.9	1324.3	1322.9
12.5°	1261.4	1255.1	1255.1	1257.2
15°	1200.0	1197.2	1189.5	1191.6
17.5°	1137.1	1134.3	1123.8	1134.3
20°	1078.4	1072.8	1068.0	1067.3
22.5°	1022.6	1017.7	1018.4	1012.8
25°	977.9	973.0	971.6	968.1
27.5°	941.5	938.7	935.9	937.3
30°	908.7	908.0	906.6	906.6
32.5°	881.5	881.5	882.9	882.9
35°	856.3	858.4	859.8	857.7
37.5°	834.0	835.4	837.5	839.6
40°	807.4	812.3	813.7	817.2
42.5°	782.3	787.9	792.1	792.1
45°	756.4	762.0	766.9	766.9
47.5°	729.9	737.6	742.5	743.2
50°	702.7	712.4	717.3	720.8
52.5°	676.1	685.9	692.9	694.3
55°	644.7	658.7	666.3	669.1
57.5°	616.7	629.3	637.7	639.8
60°	583.2	597.2	608.4	610.5
62.5°	549.0	563.7	573.4	579.7
65°	508.5	523.2	532.9	535.0
67.5°	465.9	481.2	487.5	491.7
70°	420.5	432.3	439.3	442.8
72.5°	368.8	381.4	389.7	389.7
75°	315.7	326.9	331.1	331.1
77.5°	260.5	266.8	272.4	273.8
80°	207.4	210.9	215.1	215.1
82.5°	153.0	155.8	159.9	159.2
85°	99.2	105.5	104.8	103.4
87.5°	55.9	56.6	58.7	60.1
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P242637
 CATALOG NUMBER: S124DRP-S1195D830-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	19.37	20.93	19.74	21.25	21.56	20.28	21.85	20.65	22.16	22.47
	3H	20.86	22.26	21.23	22.59	22.95	21.65	23.06	22.03	23.38	23.75
	4H	21.39	22.72	21.79	23.06	23.44	22.12	23.44	22.52	23.79	24.17
	6H	21.75	22.98	22.17	23.34	23.73	22.43	23.65	22.84	24.02	24.41
	8H	21.86	23.02	22.28	23.41	23.81	22.51	23.68	22.94	24.07	24.47
	12H	21.91	23.03	22.34	23.41	23.84	22.55	23.67	22.98	24.05	24.48
4H	2H	20.53	21.86	20.93	22.20	22.58	20.97	22.29	21.37	22.64	23.02
	3H	22.06	23.17	22.47	23.56	23.97	22.68	23.78	23.09	24.18	24.58
	4H	22.65	23.65	23.08	24.06	24.50	23.27	24.26	23.70	24.68	25.11
	6H	23.08	23.94	23.53	24.39	24.84	23.66	24.53	24.12	24.97	25.43
	8H	23.20	24.01	23.66	24.46	24.92	23.77	24.58	24.23	25.02	25.49
	12H	23.28	24.00	23.76	24.48	24.95	23.83	24.56	24.31	25.04	25.51
8H	4H	23.11	23.92	23.57	24.36	24.83	23.58	24.39	24.04	24.84	25.30
	6H	23.61	24.28	24.11	24.77	25.25	24.11	24.78	24.60	25.27	25.75
	8H	23.78	24.39	24.29	24.89	25.38	24.27	24.88	24.78	25.38	25.87
	12H	23.91	24.44	24.41	24.93	25.49	24.39	24.92	24.89	25.41	25.97
12H	4H	23.15	23.88	23.64	24.36	24.83	23.61	24.34	24.09	24.82	25.29
	6H	23.69	24.29	24.20	24.80	25.29	24.17	24.77	24.68	25.28	25.76
	8H	23.91	24.44	24.42	24.93	25.49	24.39	24.92	24.89	25.41	25.97