

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: P243506

Luminaire Tested: S124DRP-H1020D840-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P243506
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-60)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DRP-H1020D840-X4F0-XX-UDD-A-W
Description: DEFINE 4 DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

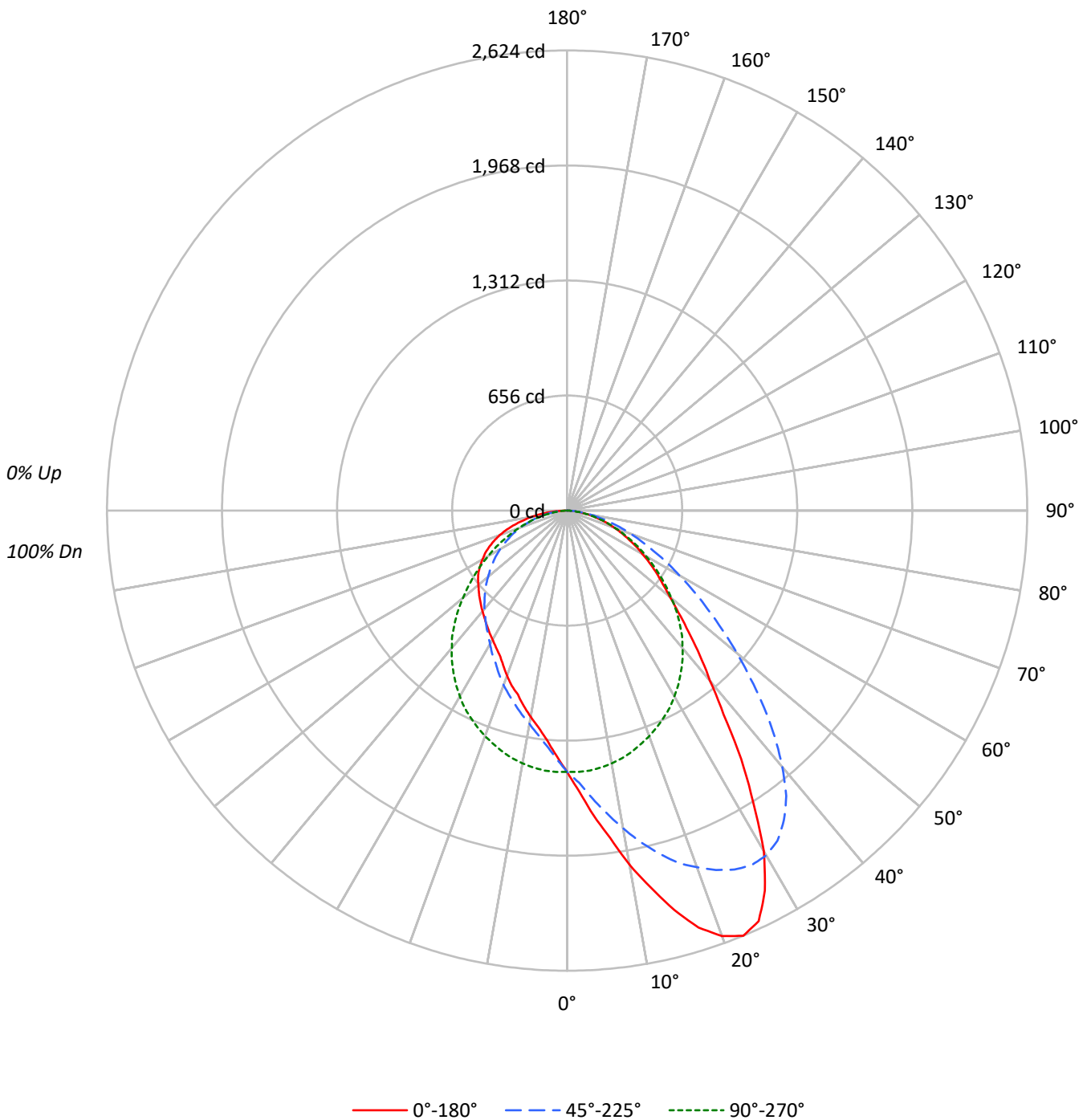
Lumens per Lamp: N/A
Luminaire Lumens: 4271.2 lumens
Efficiency: N/A
Efficacy: 135.6 lumens/watt
Spacing Criteria (0/90/45): 1.35 / 1.22 / 1.45
Luminous Opening: Rectangular (W 3.88' x L: 0.31' x H: 0')
CIE Type: Direct

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	98	95	93	94	92	90	91	89	87	85					85			
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72					72			
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61					61			
4	84	73	64	58	82	71	63	57	69	62	56	66	60	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	41					41			
7	67	53	45	39	65	53	45	39	51	44	38	50	43	38	48	42	38	36					36			
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	44	39	34	32					32			
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	29					29			
10	54	41	34	29	53	41	34	28	40	33	28	39	33	28	38	32	28	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	13241	13241	13241	13241	13241
5°	15580	14691	13275	12000	11718
10°	18516	16612	13214	11151	10789
15°	21687	18631	13098	10541	9993
20°	24419	20474	12946	10013	9478
25°	25343	22153	12773	9446	8921
30°	23015	23301	12556	9024	8724
35°	18776	23394	12258	8722	8669
40°	14703	22146	11873	8515	8706
45°	12306	19971	11395	8323	8866
50°	10560	17463	10728	8138	9131
55°	9649	15132	10007	8000	9573
60°	8841	13132	9262	7868	9922
65°	8108	11381	8478	7610	10306
70°	7459	9970	7649	7363	10619
75°	6639	8583	6725	6869	10609
80°	5539	6972	5508	6347	10581
85°	4212	5212	4151	5701	9924

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 50°
 Vertical Angle: 45°
 Luminance: 20873 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.0	3.4
10°-20°	449.1	10.5
20°-30°	721.4	16.9
30°-40°	824.7	19.3
40°-50°	759.1	17.8
50°-60°	620.9	14.5
60°-70°	442.5	10.4
70°-80°	243.2	5.7
80°-90°	65.3	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°	1315.5	30.8
0°-40°	2140.1	50.1
0°-60°	3520.2	82.4
0°-90°	4271.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4271.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1490	1490	1490	1490	1490	
5°	1746	1646	1488	1345	1313	175
15°	2357	2025	1423	1146	1086	672
25°	2584	2259	1302	963	910	1160
35°	1730	2156	1130	804	799	1075
45°	979	1589	906	662	705	764
55°	623	976	646	516	618	558
65°	386	541	403	362	490	385
75°	193	250	196	200	309	207
85°	41	51	41	56	97	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°	1489.6	1489.6	1489.6	1489.6	1489.6	1489.6	1489.6	1489.6	1489.6	1489.6	1489.6
2.5°	1603.9	1599.0	1596.6	1593.5	1592.9	1589.9	1583.8	1575.3	1564.4	1552.8	1552.8
5°	1746.1	1744.9	1735.8	1736.4	1724.9	1712.1	1702.4	1690.2	1666.5	1646.4	1632.5
7.5°	1882.3	1895.1	1892.1	1882.3	1865.3	1847.1	1827.6	1810.6	1766.8	1742.5	1722.4
10°	2051.4	2056.2	2047.7	2033.7	2018.5	1983.3	1957.7	1929.2	1881.7	1840.4	1803.9
12.5°	2199.7	2211.3	2196.1	2182.7	2146.8	2120.7	2095.1	2038.0	1988.1	1935.8	1882.9
15°	2356.6	2344.4	2352.3	2319.5	2293.9	2269.0	2204.0	2145.6	2089.1	2024.6	1969.3
17.5°	2492.8	2492.8	2478.2	2456.9	2430.1	2383.3	2318.3	2253.8	2191.2	2106.7	2028.3
20°	2581.5	2588.2	2571.2	2548.7	2516.5	2467.8	2416.2	2346.2	2262.9	2164.4	2075.7
22.5°	2624.1	2625.3	2619.2	2600.4	2574.2	2532.9	2480.0	2411.9	2323.7	2217.9	2124.9
25°	2584.0	2590.6	2588.8	2587.6	2574.2	2550.5	2508.0	2444.7	2364.5	2258.7	2158.4
27.5°	2442.9	2459.3	2473.3	2479.4	2494.0	2495.2	2482.4	2444.1	2378.5	2278.7	2166.9
30°	2242.3	2233.8	2271.4	2290.3	2340.2	2369.9	2391.2	2388.8	2351.1	2270.2	2163.8
32.5°	1974.7	1997.9	2024.6	2069.0	2128.0	2197.3	2249.6	2288.5	2284.8	2231.9	2143.2
35°	1730.3	1730.3	1764.4	1819.1	1881.7	1965.0	2052.6	2124.9	2169.3	2155.9	2093.3
37.5°	1465.3	1481.7	1520.6	1563.1	1639.7	1720.0	1835.5	1931.6	2024.6	2052.6	2020.3
40°	1267.1	1274.3	1315.7	1351.6	1430.0	1513.3	1610.0	1732.8	1839.8	1908.5	1912.7
42.5°	1119.9	1119.3	1136.3	1168.6	1231.8	1306.0	1410.5	1530.9	1656.2	1753.4	1799.0
45°	978.9	977.6	995.3	1028.1	1073.1	1138.8	1229.4	1349.7	1478.0	1588.7	1660.4
47.5°	859.7	870.6	878.5	904.1	941.2	997.1	1074.9	1171.0	1294.4	1418.4	1515.1
50°	763.6	768.5	785.5	797.7	839.0	877.9	940.6	1026.9	1132.7	1262.8	1367.4
52.5°	687.0	690.1	700.4	716.2	739.9	774.0	823.8	903.5	998.9	1112.0	1220.2
55°	622.6	620.8	627.4	637.8	658.5	687.0	723.5	784.3	867.6	976.4	1076.1
57.5°	559.4	559.4	565.4	572.7	584.3	608.0	643.9	691.9	758.8	855.4	943.6
60°	497.3	501.6	504.0	511.3	521.0	538.7	565.4	603.1	659.7	738.7	826.3
62.5°	442.6	442.6	446.9	449.3	462.1	474.8	494.3	526.5	570.9	641.4	709.5
65°	385.5	389.1	389.1	394.0	404.9	414.6	429.8	454.2	490.6	541.1	604.9
67.5°	336.8	336.8	339.9	342.3	348.4	355.1	368.4	387.3	418.3	458.4	516.2
70°	287.0	288.8	287.6	290.6	294.3	301.0	310.7	326.5	349.0	383.6	426.2
72.5°	242.0	239.5	240.8	243.8	245.6	249.9	256.0	268.1	286.4	314.3	345.3
75°	193.3	192.1	196.4	195.2	198.2	201.9	207.3	216.4	230.4	249.9	273.6
77.5°	150.8	149.0	150.8	152.0	153.2	156.3	160.5	166.0	175.7	188.5	209.8
80°	108.2	107.6	108.8	110.0	110.7	115.5	116.7	122.2	126.5	136.2	146.5
82.5°	71.7	73.0	73.6	74.8	74.2	76.6	77.8	81.5	85.1	90.0	97.9
85°	41.3	39.5	41.3	41.3	41.3	44.4	43.8	46.2	48.6	51.1	56.5
87.5°	14.6	14.6	15.2	15.8	15.8	17.6	17.0	18.2	20.7	20.7	22.5
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°	1489.6	1489.6	1489.6	1489.6	1489.6	1489.6	1489.6	1489.6	1489.6	1489.6	1489.6
2.5°	1549.2	1542.5	1537.6	1523.6	1515.1	1507.2	1499.9	1492.0	1483.5	1472.6	1465.9
5°	1617.9	1603.3	1582.0	1562.5	1540.6	1521.2	1505.4	1487.8	1468.3	1448.2	1430.6
7.5°	1693.9	1666.5	1633.7	1597.8	1563.7	1535.2	1505.4	1477.4	1450.1	1423.3	1398.4
10°	1769.9	1722.4	1679.3	1630.0	1585.0	1541.9	1502.9	1464.0	1430.0	1394.7	1363.1
12.5°	1840.4	1783.2	1720.0	1658.6	1598.4	1542.5	1494.4	1447.0	1403.2	1361.3	1324.2
15°	1894.5	1822.8	1748.0	1675.0	1605.7	1547.3	1484.7	1423.3	1377.7	1326.6	1285.9
17.5°	1956.5	1871.4	1797.2	1709.7	1623.3	1529.1	1462.8	1395.9	1341.2	1292.0	1251.2
20°	1997.9	1904.2	1797.2	1698.1	1609.3	1524.8	1445.2	1368.6	1310.8	1253.7	1204.4
22.5°	2030.7	1934.0	1816.1	1712.7	1601.4	1499.3	1413.0	1337.6	1269.5	1215.4	1168.6
25°	2047.7	1929.8	1817.3	1692.0	1580.8	1482.9	1385.6	1302.3	1233.6	1173.4	1133.3
27.5°	2048.3	1927.3	1794.2	1670.1	1551.0	1445.2	1349.1	1267.1	1189.8	1132.1	1084.0
30°	2045.3	1911.5	1771.1	1635.5	1516.9	1408.7	1308.4	1223.3	1152.7	1091.3	1045.7
32.5°	2025.8	1889.6	1736.4	1594.1	1465.3	1356.4	1264.0	1179.5	1104.1	1048.2	1000.1
35°	1982.0	1841.6	1687.8	1541.3	1419.0	1306.0	1214.8	1129.6	1062.2	1001.4	952.1
37.5°	1926.1	1794.8	1638.5	1485.3	1353.4	1246.4	1160.7	1080.4	1009.9	953.9	904.7
40°	1855.6	1732.2	1578.3	1419.0	1287.1	1178.9	1098.0	1023.2	963.1	905.9	857.9
42.5°	1758.9	1664.1	1506.0	1351.0	1212.9	1110.8	1032.4	970.4	908.3	856.7	808.6
45°	1655.6	1569.2	1428.8	1275.0	1142.4	1037.2	963.7	906.5	853.6	801.3	762.4
47.5°	1541.3	1470.7	1340.6	1190.4	1059.7	966.7	894.4	843.3	794.6	754.5	715.6
50°	1405.1	1368.0	1246.4	1110.2	983.1	887.7	828.1	775.8	739.9	701.0	664.5
52.5°	1278.6	1248.8	1149.7	1016.0	900.4	816.5	752.7	711.3	676.1	647.5	618.3
55°	1141.2	1126.0	1042.1	926.6	822.0	738.1	683.4	645.7	617.7	591.0	569.7
57.5°	1014.7	1013.5	939.3	840.2	738.1	667.0	614.7	583.7	559.4	540.5	522.3
60°	885.2	895.6	834.8	744.2	663.3	596.4	549.0	521.0	504.6	487.0	471.8
62.5°	767.9	783.7	728.4	657.2	577.6	522.9	486.4	465.1	446.9	434.1	422.6
65°	655.4	675.5	630.5	566.6	505.8	454.2	423.2	403.1	389.1	381.8	373.9
67.5°	556.3	567.3	536.9	487.0	436.5	391.5	366.0	348.4	336.2	333.2	324.1
70°	457.2	470.0	448.7	403.1	364.2	331.4	308.3	294.3	287.0	282.7	276.6
72.5°	377.6	383.0	361.8	330.1	299.1	271.8	254.7	244.4	235.9	234.1	231.0
75°	295.5	303.4	286.4	262.0	236.5	217.1	204.3	195.8	191.5	188.5	188.5
77.5°	223.1	229.8	220.1	198.8	183.6	166.6	158.1	150.2	148.3	145.3	146.5
80°	158.7	161.7	156.3	141.7	128.3	119.2	111.9	107.6	107.0	104.6	107.0
82.5°	105.2	105.8	99.7	93.0	82.7	77.8	73.0	71.1	70.5	70.5	69.3
85°	58.4	59.6	55.3	51.1	47.4	43.2	42.0	40.7	39.5	41.3	42.6
87.5°	22.5	23.1	22.5	20.7	19.5	18.2	17.6	18.8	17.0	18.2	18.8
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°	1489.6	1489.6	1489.6	1489.6	1489.6	1489.6	1489.6	1489.6	1489.6	1489.6	1489.6
2.5°	1455.5	1450.7	1443.4	1431.2	1422.7	1413.6	1409.9	1411.1	1407.5	1402.6	1403.8
5°	1417.2	1403.2	1391.1	1374.1	1358.2	1344.9	1340.6	1335.1	1330.3	1327.2	1324.2
7.5°	1376.5	1357.0	1338.8	1321.8	1303.5	1286.5	1279.8	1275.0	1272.5	1264.0	1260.4
10°	1337.6	1315.1	1293.2	1273.1	1254.3	1235.4	1228.7	1222.7	1214.2	1210.5	1206.3
12.5°	1296.2	1273.7	1250.0	1225.7	1206.9	1191.7	1180.1	1175.9	1167.3	1163.7	1161.3
15°	1256.1	1228.7	1209.9	1191.1	1162.5	1145.5	1140.6	1125.4	1120.5	1113.2	1108.4
17.5°	1216.0	1190.4	1162.5	1140.6	1123.0	1101.7	1090.1	1083.4	1074.3	1067.6	1058.5
20°	1176.5	1146.7	1124.8	1097.4	1078.0	1058.5	1043.9	1037.8	1029.9	1020.8	1008.0
22.5°	1138.2	1105.3	1084.0	1058.5	1034.2	1011.7	999.5	991.0	975.2	973.4	961.8
25°	1093.2	1064.0	1036.0	1009.3	985.6	963.1	955.2	941.8	936.3	925.4	923.5
27.5°	1050.6	1019.6	989.2	960.0	939.3	923.5	909.6	901.0	895.6	887.1	887.7
30°	1006.2	972.2	943.6	916.8	894.4	879.2	870.0	865.8	857.9	856.7	852.4
32.5°	958.8	927.8	898.0	874.3	851.2	837.8	833.6	829.3	824.4	825.0	823.8
35°	911.4	884.0	852.4	830.5	811.7	803.8	797.1	795.9	794.0	795.3	795.3
37.5°	865.2	835.4	809.2	789.2	778.2	767.3	764.2	763.6	764.2	765.5	768.5
40°	820.2	792.8	767.3	750.9	738.7	733.8	729.6	731.4	733.8	738.1	741.7
42.5°	775.2	749.0	727.8	711.3	699.8	697.4	698.0	701.6	702.2	708.3	715.0
45°	727.8	705.3	685.2	672.4	665.1	662.1	663.3	667.0	671.2	679.7	688.2
47.5°	684.0	663.9	646.3	633.5	628.1	626.8	629.3	634.1	643.9	652.4	662.1
50°	639.6	621.4	604.9	593.4	592.8	588.5	594.0	600.1	611.6	623.2	637.8
52.5°	595.8	578.2	564.2	555.1	552.7	552.7	559.4	570.3	580.6	595.8	609.2
55°	550.2	534.4	521.0	518.0	514.4	516.2	523.5	534.4	549.0	566.0	580.6
57.5°	503.4	490.0	480.3	476.1	474.2	480.3	488.8	500.4	519.2	536.2	552.1
60°	459.0	447.5	437.1	435.9	434.7	442.6	453.0	465.1	484.0	501.0	520.4
62.5°	411.6	402.5	395.8	394.0	394.0	401.9	413.4	429.2	446.9	465.1	485.8
65°	363.6	355.7	353.8	351.4	356.9	361.8	373.3	388.5	407.4	427.4	449.3
67.5°	319.2	314.3	310.7	310.7	314.9	324.1	334.4	349.6	369.0	390.3	409.8
70°	274.8	269.9	266.9	269.9	272.4	283.3	294.3	308.9	327.1	347.8	368.4
72.5°	228.6	229.2	229.8	229.2	231.6	242.0	252.9	266.9	284.5	304.6	323.5
75°	187.9	184.8	185.4	186.7	194.6	200.0	211.0	224.3	243.2	261.4	277.2
77.5°	145.9	144.7	147.7	147.7	155.0	161.7	170.8	184.2	200.6	217.1	229.8
80°	107.0	107.6	110.0	110.7	116.7	124.0	133.8	142.9	157.5	169.0	181.2
82.5°	72.4	73.6	76.6	80.9	83.3	87.6	96.1	105.8	116.1	128.3	135.6
85°	42.0	43.8	46.2	49.2	51.7	55.9	62.0	69.9	77.2	83.9	90.0
87.5°	20.7	20.7	22.5	23.7	25.5	28.0	32.2	35.3	40.1	45.0	47.4
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: P243506

CATALOG NUMBER: S124DRP-H1020D840-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1489.6	1489.6	1489.6	1489.6
2.5°	1401.4	1400.8	1398.4	1399.6
5°	1322.4	1316.3	1315.7	1313.3
7.5°	1254.3	1252.5	1252.5	1247.6
10°	1202.0	1196.5	1197.7	1195.3
12.5°	1152.1	1149.1	1145.5	1141.8
15°	1096.2	1096.2	1096.2	1085.9
17.5°	1052.4	1051.8	1048.8	1048.2
20°	1006.8	1004.4	996.5	1002.0
22.5°	960.6	958.8	952.1	953.3
25°	917.5	915.6	914.4	909.6
27.5°	880.4	881.0	882.2	879.2
30°	852.4	850.6	853.0	850.0
32.5°	826.3	826.3	823.8	824.4
35°	796.5	798.9	799.5	798.9
37.5°	770.3	773.4	775.8	773.4
40°	746.0	748.4	750.9	750.3
42.5°	720.5	724.7	726.5	728.4
45°	696.1	701.6	704.7	705.3
47.5°	671.2	677.9	684.0	683.4
50°	646.9	655.4	660.9	660.3
52.5°	622.6	631.1	637.8	640.8
55°	595.2	606.2	612.2	617.7
57.5°	567.9	580.0	586.1	588.5
60°	537.5	548.4	556.3	558.1
62.5°	503.4	515.0	525.3	527.7
65°	468.2	480.9	488.8	490.0
67.5°	427.4	439.6	447.5	451.1
70°	385.5	394.6	403.1	408.6
72.5°	338.7	349.6	357.5	361.1
75°	290.0	302.2	306.4	308.9
77.5°	239.5	246.8	253.5	254.1
80°	189.1	198.2	200.6	206.7
82.5°	139.2	147.7	145.9	148.3
85°	91.8	94.8	96.7	97.3
87.5°	48.6	50.5	51.7	52.3
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P243506
 CATALOG NUMBER: S124DRP-H1020D840-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	19.54	21.12	19.91	21.43	21.74	19.83	21.40	20.20	21.72	22.03
	3H	20.99	22.40	21.36	22.73	23.09	21.22	22.63	21.59	22.96	23.32
	4H	21.50	22.83	21.90	23.18	23.56	21.70	23.03	22.10	23.38	23.76
	6H	21.85	23.08	22.26	23.45	23.84	22.02	23.25	22.43	23.61	24.01
	8H	21.95	23.12	22.37	23.51	23.91	22.10	23.27	22.53	23.66	24.06
	12H	22.00	23.12	22.43	23.50	23.93	22.14	23.27	22.57	23.65	24.08
4H	2H	20.68	22.01	21.08	22.36	22.74	20.62	21.95	21.02	22.30	22.68
	3H	22.18	23.29	22.59	23.69	24.09	22.33	23.44	22.74	23.84	24.24
	4H	22.76	23.76	23.19	24.17	24.61	22.92	23.92	23.35	24.34	24.77
	6H	23.17	24.04	23.62	24.48	24.94	23.32	24.20	23.78	24.64	25.10
	8H	23.29	24.10	23.75	24.55	25.01	23.43	24.24	23.89	24.69	25.15
	12H	23.36	24.09	23.84	24.57	25.04	23.49	24.23	23.98	24.70	25.17
8H	4H	23.18	24.00	23.65	24.44	24.91	23.26	24.08	23.72	24.52	24.99
	6H	23.68	24.36	24.18	24.85	25.32	23.79	24.47	24.29	24.96	25.43
	8H	23.84	24.45	24.35	24.96	25.45	23.96	24.56	24.47	25.07	25.56
	12H	23.96	24.50	24.47	24.99	25.55	24.07	24.61	24.58	25.10	25.66
12H	4H	23.23	23.96	23.71	24.43	24.91	23.29	24.03	23.78	24.50	24.97
	6H	23.75	24.36	24.26	24.86	25.35	23.85	24.46	24.37	24.97	25.46
	8H	23.96	24.50	24.47	24.99	25.55	24.08	24.61	24.58	25.11	25.67