

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: P243511

Luminaire Tested: S124DRP-H1020D930-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2024  
Report Number: P243511  
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-H1020D930-X4F0-XX-UDD-A-W  
Description: DEFINE 4 DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER.  
HIGH PERFORMANCE LIGHT ENGINE  
Light Source: (184) 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

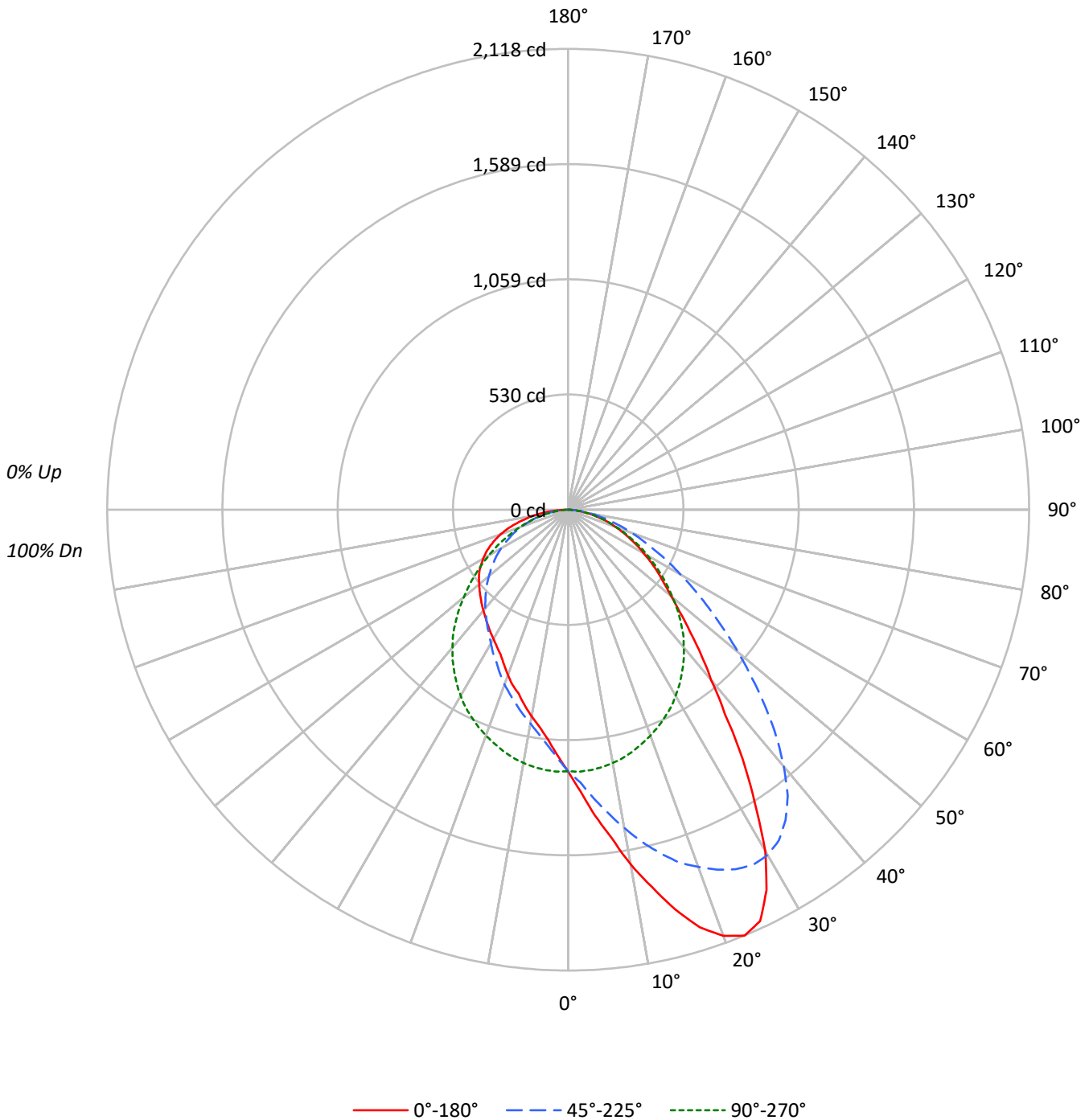
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3448.3 lumens  
Efficiency: N/A  
Efficacy: 109.5 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°	10690	10690	10690	10690	10690
5°	12579	11860	10717	9688	9460
10°	14948	13411	10669	9003	8710
15°	17508	15041	10575	8510	8068
20°	19715	16529	10452	8084	7652
25°	20460	17885	10312	7626	7202
30°	18581	18812	10137	7285	7043
35°	15159	18888	9896	7041	6999
40°	11869	17879	9586	6875	7028
45°	9935	16123	9201	6719	7158
50°	8525	14098	8661	6570	7372
55°	7789	12217	8079	6458	7729
60°	7138	10603	7479	6352	8011
65°	6545	9189	6844	6144	8321
70°	6022	8049	6175	5944	8574
75°	5361	6927	5430	5547	8565
80°	4474	5631	4448	5124	8543
85°	3406	4202	3355	4610	8006

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 50°  
 Vertical Angle: 45°  
 Luminance: 16851 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	117.1	3.4
10°-20°	362.5	10.5
20°-30°	582.4	16.9
30°-40°	665.8	19.3
40°-50°	612.9	17.8
50°-60°	501.3	14.5
60°-70°	357.3	10.4
70°-80°	196.3	5.7
80°-90°	52.8	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°	1062.0	30.8
0°-40°	1727.8	50.1
0°-60°	2842.0	82.4
0°-90°	3448.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3448.3	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1203	1203	1203	1203	1203	
5°	1410	1329	1201	1086	1060	142
15°	1902	1634	1149	925	877	542
25°	2086	1824	1051	778	734	936
35°	1397	1741	912	649	645	868
45°	790	1283	732	534	569	617
55°	503	788	521	417	499	451
65°	311	437	325	292	396	311
75°	156	202	158	162	249	167
85°	33	41	33	45	78	40
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°	1202.6	1202.6	1202.6	1202.6	1202.6	1202.6	1202.6	1202.6	1202.6	1202.6	1202.6
2.5°	1294.9	1290.9	1289.0	1286.5	1286.0	1283.6	1278.7	1271.8	1263.0	1253.6	1253.6
5°	1409.7	1408.7	1401.4	1401.9	1392.5	1382.2	1374.4	1364.6	1345.4	1329.2	1317.9
7.5°	1519.7	1530.0	1527.5	1519.7	1505.9	1491.2	1475.5	1461.8	1426.4	1406.8	1390.6
10°	1656.1	1660.1	1653.2	1641.9	1629.6	1601.2	1580.5	1557.5	1519.2	1485.8	1456.4
12.5°	1775.9	1785.2	1773.0	1762.2	1733.2	1712.1	1691.5	1645.3	1605.1	1562.9	1520.2
15°	1902.5	1892.7	1899.1	1872.6	1852.0	1831.9	1779.3	1732.2	1686.6	1634.5	1589.9
17.5°	2012.5	2012.5	2000.7	1983.5	1961.9	1924.1	1871.6	1819.6	1769.0	1700.8	1637.5
20°	2084.2	2089.6	2075.8	2057.6	2031.6	1992.4	1950.6	1894.2	1826.9	1747.4	1675.8
22.5°	2118.5	2119.5	2114.6	2099.4	2078.3	2044.9	2002.2	1947.2	1876.0	1790.6	1715.5
25°	2086.1	2091.5	2090.0	2089.1	2078.3	2059.1	2024.8	1973.7	1908.9	1823.5	1742.5
27.5°	1972.2	1985.5	1996.8	2001.7	2013.5	2014.5	2004.1	1973.2	1920.2	1839.7	1749.4
30°	1810.3	1803.4	1833.8	1849.0	1889.3	1913.3	1930.5	1928.6	1898.1	1832.8	1746.9
32.5°	1594.3	1612.9	1634.5	1670.4	1718.0	1773.9	1816.1	1847.6	1844.6	1801.9	1730.3
35°	1397.0	1397.0	1424.5	1468.6	1519.2	1586.4	1657.1	1715.5	1751.4	1740.6	1690.0
37.5°	1183.0	1196.2	1227.6	1262.0	1323.8	1388.6	1481.9	1559.4	1634.5	1657.1	1631.1
40°	1022.9	1028.8	1062.2	1091.2	1154.5	1221.7	1299.8	1398.9	1485.3	1540.8	1544.2
42.5°	904.1	903.7	917.4	943.4	994.5	1054.3	1138.8	1236.0	1337.1	1415.6	1452.4
45°	790.3	789.3	803.5	830.0	866.4	919.4	992.5	1089.7	1193.3	1282.6	1340.5
47.5°	694.1	702.9	709.3	729.9	759.8	805.0	867.8	945.4	1045.0	1145.2	1223.2
50°	616.5	620.4	634.2	644.0	677.4	708.8	759.3	829.0	914.5	1019.5	1103.9
52.5°	554.7	557.1	565.5	578.2	597.4	624.9	665.1	729.4	806.5	897.8	985.1
55°	502.6	501.2	506.6	514.9	531.6	554.7	584.1	633.2	700.4	788.3	868.8
57.5°	451.6	451.6	456.5	462.4	471.7	490.9	519.8	558.6	612.6	690.6	761.8
60°	401.5	405.0	406.9	412.8	420.7	434.9	456.5	486.9	532.6	596.4	667.1
62.5°	357.3	357.3	360.8	362.7	373.0	383.4	399.1	425.1	460.9	517.8	572.8
65°	311.2	314.1	314.1	318.1	326.9	334.8	347.0	366.7	396.1	436.9	488.4
67.5°	271.9	271.9	274.4	276.3	281.3	286.7	297.5	312.7	337.7	370.1	416.7
70°	231.7	233.2	232.2	234.6	237.6	243.0	250.8	263.6	281.7	309.7	344.1
72.5°	195.4	193.4	194.4	196.8	198.3	201.7	206.6	216.5	231.2	253.8	278.8
75°	156.1	155.1	158.5	157.6	160.0	163.0	167.4	174.7	186.0	201.7	220.9
77.5°	121.7	120.3	121.7	122.7	123.7	126.1	129.6	134.0	141.9	152.2	169.3
80°	87.4	86.9	87.9	88.8	89.3	93.3	94.2	98.7	102.1	110.0	118.3
82.5°	57.9	58.9	59.4	60.4	59.9	61.8	62.8	65.8	68.7	72.6	79.0
85°	33.4	31.9	33.4	33.4	33.4	35.8	35.3	37.3	39.3	41.2	45.6
87.5°	11.8	11.8	12.3	12.8	12.8	14.2	13.7	14.7	16.7	16.7	18.2
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°	1202.6	1202.6	1202.6	1202.6	1202.6	1202.6	1202.6	1202.6	1202.6	1202.6	1202.6
2.5°	1250.7	1245.3	1241.4	1230.1	1223.2	1216.8	1210.9	1204.5	1197.7	1188.8	1183.4
5°	1306.2	1294.4	1277.2	1261.5	1243.8	1228.1	1215.3	1201.1	1185.4	1169.2	1155.0
7.5°	1367.5	1345.4	1318.9	1290.0	1262.5	1239.4	1215.3	1192.8	1170.7	1149.1	1129.0
10°	1428.9	1390.6	1355.7	1316.0	1279.6	1244.8	1213.4	1182.0	1154.5	1126.0	1100.5
12.5°	1485.8	1439.7	1388.6	1339.0	1290.4	1245.3	1206.5	1168.2	1132.9	1099.0	1069.1
15°	1529.5	1471.6	1411.2	1352.3	1296.3	1249.2	1198.7	1149.1	1112.3	1071.0	1038.2
17.5°	1579.6	1510.8	1451.0	1380.3	1310.6	1234.5	1181.0	1127.0	1082.8	1043.1	1010.2
20°	1612.9	1537.3	1451.0	1370.9	1299.3	1231.1	1166.8	1104.9	1058.3	1012.1	972.4
22.5°	1639.4	1561.4	1466.2	1382.7	1292.9	1210.4	1140.7	1079.9	1024.9	981.2	943.4
25°	1653.2	1558.0	1467.2	1366.0	1276.2	1197.2	1118.6	1051.4	995.9	947.3	914.9
27.5°	1653.7	1556.0	1448.5	1348.4	1252.2	1166.8	1089.2	1022.9	960.6	914.0	875.2
30°	1651.2	1543.2	1429.8	1320.4	1224.7	1137.3	1056.3	987.6	930.7	881.1	844.3
32.5°	1635.5	1525.6	1401.9	1287.0	1183.0	1095.1	1020.5	952.3	891.4	846.2	807.5
35°	1600.2	1486.8	1362.6	1244.3	1145.6	1054.3	980.7	912.0	857.5	808.4	768.7
37.5°	1555.0	1449.0	1322.8	1199.1	1092.6	1006.2	937.0	872.2	815.3	770.1	730.4
40°	1498.1	1398.4	1274.2	1145.6	1039.1	951.8	886.5	826.1	777.5	731.4	692.6
42.5°	1420.0	1343.5	1215.8	1090.7	979.2	896.8	833.5	783.4	733.3	691.6	652.8
45°	1336.6	1266.9	1153.5	1029.3	922.3	837.4	778.0	731.9	689.2	646.9	615.5
47.5°	1244.3	1187.4	1082.3	961.1	855.6	780.5	722.0	680.8	641.5	609.1	577.7
50°	1134.4	1104.4	1006.2	896.3	793.7	716.6	668.5	626.3	597.4	566.0	536.5
52.5°	1032.3	1008.2	928.2	820.2	727.0	659.2	607.7	574.3	545.8	522.8	499.2
55°	921.3	909.1	841.3	748.1	663.6	595.9	551.7	521.3	498.7	477.1	459.9
57.5°	819.2	818.2	758.4	678.4	595.9	538.5	496.3	471.2	451.6	436.4	421.6
60°	714.7	723.0	673.9	600.8	535.5	481.5	443.2	420.7	407.4	393.2	380.9
62.5°	619.9	632.7	588.0	530.6	466.3	422.1	392.7	375.5	360.8	350.5	341.1
65°	529.1	545.3	509.0	457.5	408.4	366.7	341.6	325.4	314.1	308.3	301.9
67.5°	449.1	458.0	433.4	393.2	352.4	316.1	295.5	281.3	271.4	269.0	261.6
70°	369.1	379.4	362.2	325.4	294.0	267.5	248.9	237.6	231.7	228.2	223.3
72.5°	304.8	309.2	292.1	266.5	241.5	219.4	205.7	197.3	190.5	189.0	186.5
75°	238.6	244.9	231.2	211.6	190.9	175.2	164.9	158.1	154.6	152.2	152.2
77.5°	180.1	185.5	177.7	160.5	148.2	134.5	127.6	121.2	119.8	117.3	118.3
80°	128.1	130.6	126.1	114.4	103.6	96.2	90.3	86.9	86.4	84.4	86.4
82.5°	84.9	85.4	80.5	75.1	66.8	62.8	58.9	57.4	56.9	56.9	56.0
85°	47.1	48.1	44.7	41.2	38.3	34.9	33.9	32.9	31.9	33.4	34.4
87.5°	18.2	18.7	18.2	16.7	15.7	14.7	14.2	15.2	13.7	14.7	15.2
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°	1202.6	1202.6	1202.6	1202.6	1202.6	1202.6	1202.6	1202.6	1202.6	1202.6	1202.6
2.5°	1175.1	1171.2	1165.3	1155.5	1148.6	1141.2	1138.3	1139.3	1136.3	1132.4	1133.4
5°	1144.2	1132.9	1123.1	1109.3	1096.6	1085.8	1082.3	1077.9	1074.0	1071.5	1069.1
7.5°	1111.3	1095.6	1080.9	1067.1	1052.4	1038.6	1033.2	1029.3	1027.4	1020.5	1017.5
10°	1079.9	1061.7	1044.0	1027.8	1012.6	997.4	992.0	987.1	980.2	977.3	973.8
12.5°	1046.5	1028.3	1009.2	989.6	974.3	962.1	952.7	949.3	942.4	939.5	937.5
15°	1014.1	992.0	976.8	961.6	938.5	924.8	920.8	908.6	904.6	898.7	894.8
17.5°	981.7	961.1	938.5	920.8	906.6	889.4	880.1	874.7	867.3	861.9	854.6
20°	949.8	925.7	908.1	886.0	870.3	854.6	842.8	837.9	831.5	824.1	813.8
22.5°	918.9	892.4	875.2	854.6	834.9	816.8	807.0	800.1	787.3	785.9	776.5
25°	882.6	859.0	836.4	814.8	795.7	777.5	771.1	760.3	755.9	747.1	745.6
27.5°	848.2	823.2	798.6	775.1	758.4	745.6	734.3	727.4	723.0	716.2	716.6
30°	812.4	784.9	761.8	740.2	722.0	709.8	702.4	699.0	692.6	691.6	688.2
32.5°	774.1	749.0	725.0	705.8	687.2	676.4	673.0	669.5	665.6	666.1	665.1
35°	735.8	713.7	688.2	670.5	655.3	648.9	643.5	642.5	641.1	642.0	642.0
37.5°	698.5	674.4	653.3	637.1	628.3	619.5	617.0	616.5	617.0	618.0	620.4
40°	662.2	640.1	619.5	606.2	596.4	592.5	589.0	590.5	592.5	595.9	598.8
42.5°	625.8	604.7	587.5	574.3	565.0	563.0	563.5	566.4	566.9	571.8	577.2
45°	587.5	569.4	553.2	542.9	537.0	534.5	535.5	538.5	541.9	548.8	555.6
47.5°	552.2	536.0	521.8	511.5	507.0	506.1	508.0	512.0	519.8	526.7	534.5
50°	516.4	501.6	488.4	479.1	478.6	475.1	479.6	484.5	493.8	503.1	514.9
52.5°	481.0	466.8	455.5	448.1	446.2	446.2	451.6	460.4	468.8	481.0	491.8
55°	444.2	431.5	420.7	418.2	415.3	416.7	422.6	431.5	443.2	457.0	468.8
57.5°	406.4	395.6	387.8	384.3	382.9	387.8	394.6	404.0	419.2	432.9	445.7
60°	370.6	361.3	352.9	351.9	351.0	357.3	365.7	375.5	390.7	404.5	420.2
62.5°	332.3	324.9	319.5	318.1	318.1	324.5	333.8	346.5	360.8	375.5	392.2
65°	293.5	287.1	285.7	283.7	288.1	292.1	301.4	313.7	328.9	345.1	362.7
67.5°	257.7	253.8	250.8	250.8	254.3	261.6	270.0	282.2	297.9	315.1	330.8
70°	221.9	217.9	215.5	217.9	219.9	228.7	237.6	249.4	264.1	280.8	297.5
72.5°	184.6	185.1	185.5	185.1	187.0	195.4	204.2	215.5	229.7	245.9	261.1
75°	151.7	149.2	149.7	150.7	157.1	161.5	170.3	181.1	196.3	211.1	223.8
77.5°	117.8	116.8	119.3	119.3	125.2	130.6	137.9	148.7	162.0	175.2	185.5
80°	86.4	86.9	88.8	89.3	94.2	100.1	108.0	115.4	127.1	136.5	146.3
82.5°	58.4	59.4	61.8	65.3	67.2	70.7	77.6	85.4	93.8	103.6	109.5
85°	33.9	35.3	37.3	39.8	41.7	45.2	50.1	56.4	62.3	67.7	72.6
87.5°	16.7	16.7	18.2	19.1	20.6	22.6	26.0	28.5	32.4	36.3	38.3
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: P243511

CATALOG NUMBER: S124DRP-H1020D930-X4F0-XX-UDD-A-W

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	1202.6	1202.6	1202.6	1202.6
2.5°	1131.4	1130.9	1129.0	1129.9
5°	1067.6	1062.7	1062.2	1060.2
7.5°	1012.6	1011.2	1011.2	1007.2
10°	970.4	966.0	967.0	965.0
12.5°	930.2	927.7	924.8	921.8
15°	885.0	885.0	885.0	876.7
17.5°	849.7	849.2	846.7	846.2
20°	812.8	810.9	804.5	808.9
22.5°	775.5	774.1	768.7	769.7
25°	740.7	739.2	738.2	734.3
27.5°	710.8	711.2	712.2	709.8
30°	688.2	686.7	688.7	686.2
32.5°	667.1	667.1	665.1	665.6
35°	643.0	645.0	645.5	645.0
37.5°	621.9	624.4	626.3	624.4
40°	602.3	604.2	606.2	605.7
42.5°	581.7	585.1	586.6	588.0
45°	562.0	566.4	568.9	569.4
47.5°	541.9	547.3	552.2	551.7
50°	522.3	529.1	533.6	533.1
52.5°	502.6	509.5	514.9	517.4
55°	480.5	489.4	494.3	498.7
57.5°	458.5	468.3	473.2	475.1
60°	433.9	442.7	449.1	450.6
62.5°	406.4	415.8	424.1	426.1
65°	378.0	388.3	394.6	395.6
67.5°	345.1	354.9	361.3	364.2
70°	311.2	318.6	325.4	329.9
72.5°	273.4	282.2	288.6	291.6
75°	234.1	244.0	247.4	249.4
77.5°	193.4	199.3	204.7	205.2
80°	152.7	160.0	162.0	166.9
82.5°	112.4	119.3	117.8	119.8
85°	74.1	76.6	78.0	78.5
87.5°	39.3	40.7	41.7	42.2
90°	0.0	0.0	0.0	0.0

TEST NUMBER: P243511  
 CATALOG NUMBER: S124DRP-H1020D930-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	18.80	20.37	19.17	20.69	21.00	19.09	20.66	19.45	20.97	21.29
	3H	20.24	21.66	20.62	21.98	22.35	20.47	21.89	20.85	22.22	22.58
	4H	20.76	22.09	21.16	22.44	22.82	20.96	22.29	21.36	22.64	23.01
	6H	21.11	22.34	21.52	22.70	23.10	21.27	22.50	21.68	22.87	23.26
	8H	21.20	22.38	21.63	22.77	23.17	21.36	22.53	21.78	22.92	23.32
	12H	21.25	22.38	21.68	22.76	23.19	21.40	22.53	21.83	22.91	23.34
4H	2H	19.94	21.27	20.34	21.61	21.99	19.88	21.21	20.28	21.56	21.93
	3H	21.44	22.55	21.85	22.95	23.35	21.58	22.69	21.99	23.09	23.49
	4H	22.01	23.01	22.44	23.43	23.87	22.18	23.18	22.61	23.59	24.03
	6H	22.43	23.30	22.88	23.74	24.20	22.58	23.45	23.03	23.89	24.35
	8H	22.54	23.36	23.00	23.80	24.27	22.68	23.50	23.15	23.94	24.41
	12H	22.62	23.35	23.10	23.83	24.30	22.75	23.48	23.23	23.96	24.43
8H	4H	22.44	23.26	22.90	23.70	24.17	22.52	23.33	22.98	23.78	24.24
	6H	22.94	23.61	23.43	24.10	24.58	23.05	23.73	23.54	24.22	24.69
	8H	23.10	23.71	23.61	24.22	24.70	23.21	23.82	23.72	24.33	24.81
	12H	23.22	23.75	23.72	24.25	24.81	23.33	23.86	23.84	24.36	24.92
12H	4H	22.48	23.21	22.96	23.69	24.16	22.55	23.28	23.03	23.76	24.23
	6H	23.00	23.61	23.52	24.12	24.61	23.11	23.72	23.62	24.23	24.71
	8H	23.22	23.75	23.72	24.25	24.81	23.33	23.87	23.84	24.36	24.92