

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: P243521

Luminaire Tested: S124DRP-H1020D940-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2024  
Report Number: P243521  
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-H1020D940-X4F0-XX-UDD-A-W  
Description: DEFINE 4 DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER.  
HIGH PERFORMANCE LIGHT ENGINE  
Light Source: (184) 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

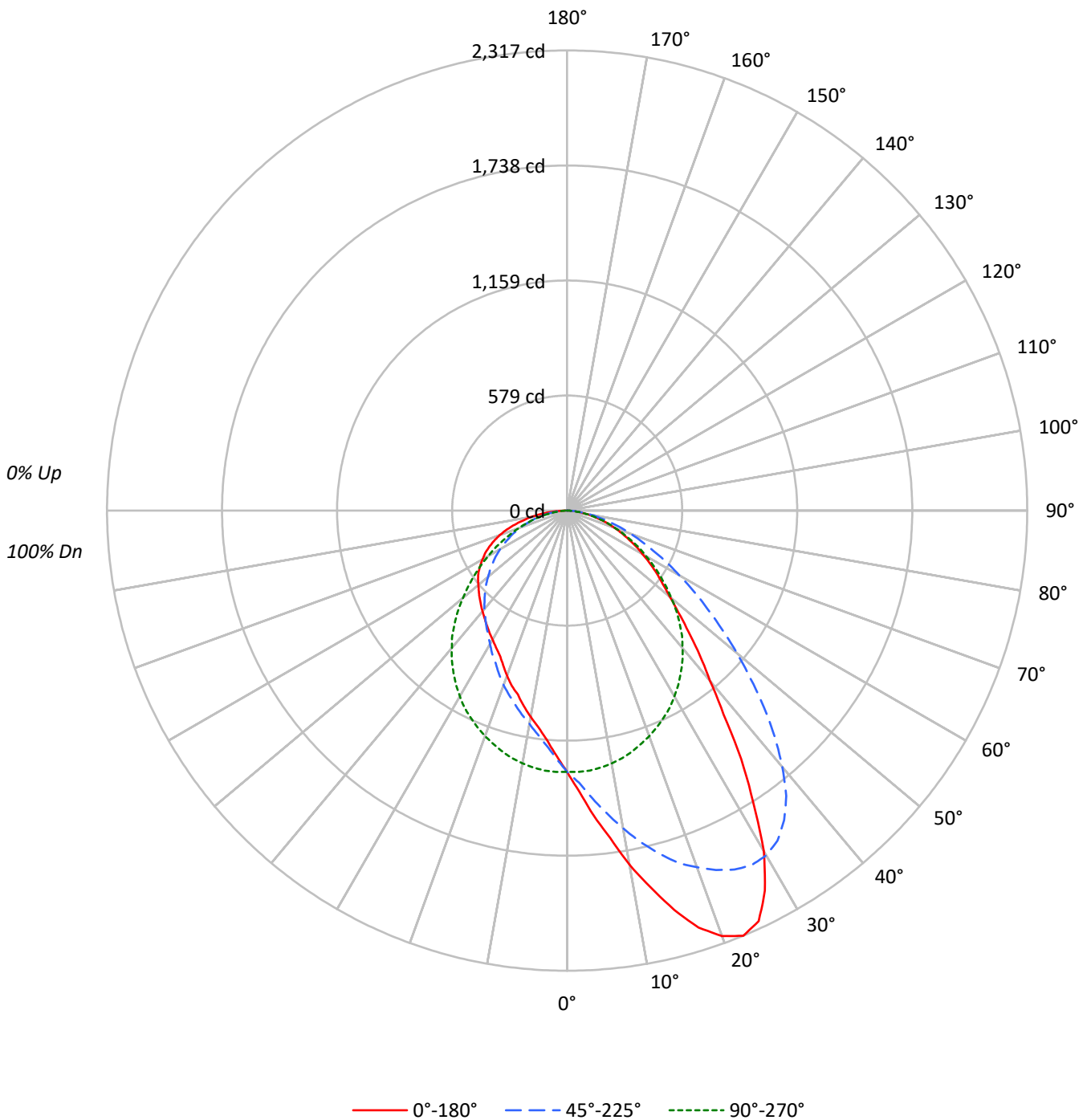
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3771.5 lumens  
Efficiency: N/A  
Efficacy: 119.7 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°	11692	11692	11692	11692	11692
5°	13757	12972	11722	10596	10347
10°	16349	14668	11668	9847	9527
15°	19149	16451	11566	9307	8823
20°	21563	18079	11432	8842	8369
25°	22378	19561	11278	8341	7877
30°	20322	20575	11087	7968	7703
35°	16580	20658	10824	7701	7655
40°	12982	19554	10484	7519	7687
45°	10865	17634	10063	7349	7829
50°	9325	15419	9473	7187	8062
55°	8519	13362	8835	7064	8452
60°	7806	11596	8180	6948	8761
65°	7160	10050	7486	6718	9101
70°	6586	8805	6752	6503	9377
75°	5863	7576	5938	6065	9366
80°	4894	6158	4863	5605	9342
85°	3723	4600	3672	5038	8761

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 50°  
 Vertical Angle: 45°  
 Luminance: 18431 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	128.0	3.4
10°-20°	396.5	10.5
20°-30°	637.0	16.9
30°-40°	728.2	19.3
40°-50°	670.3	17.8
50°-60°	548.3	14.5
60°-70°	390.7	10.4
70°-80°	214.7	5.7
80°-90°	57.7	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°	1161.6	30.8
0°-40°	1889.7	50.1
0°-60°	3108.3	82.4
0°-90°	3771.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3771.5	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1315	1315	1315	1315	1315	
5°	1542	1454	1314	1188	1160	155
15°	2081	1788	1257	1011	959	593
25°	2282	1994	1150	850	803	1024
35°	1528	1904	998	710	705	950
45°	864	1403	800	585	623	675
55°	550	862	570	456	545	493
65°	340	478	356	319	433	340
75°	171	221	173	177	273	182
85°	36	45	36	49	86	44
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°	1315.3	1315.3	1315.3	1315.3	1315.3	1315.3	1315.3	1315.3	1315.3	1315.3	1315.3
2.5°	1416.2	1411.9	1409.8	1407.1	1406.6	1403.9	1398.5	1391.0	1381.3	1371.1	1371.1
5°	1541.8	1540.8	1532.7	1533.3	1523.1	1511.8	1503.2	1492.5	1471.5	1453.8	1441.5
7.5°	1662.1	1673.4	1670.7	1662.1	1647.1	1631.0	1613.8	1598.8	1560.1	1538.6	1520.9
10°	1811.3	1815.6	1808.1	1795.8	1782.4	1751.2	1728.7	1703.4	1661.6	1625.1	1592.8
12.5°	1942.3	1952.5	1939.1	1927.3	1895.6	1872.5	1850.0	1799.5	1755.5	1709.3	1662.6
15°	2080.8	2070.1	2077.1	2048.1	2025.6	2003.5	1946.1	1894.6	1844.6	1787.7	1738.9
17.5°	2201.1	2201.1	2188.2	2169.4	2145.8	2104.5	2047.0	1990.1	1934.8	1860.2	1790.9
20°	2279.5	2285.4	2270.4	2250.5	2222.0	2179.1	2133.5	2071.7	1998.2	1911.2	1832.8
22.5°	2317.1	2318.1	2312.8	2296.1	2273.0	2236.5	2189.8	2129.7	2051.9	1958.4	1876.3
25°	2281.6	2287.5	2285.9	2284.9	2273.0	2252.1	2214.5	2158.7	2087.8	1994.4	1905.8
27.5°	2157.1	2171.6	2183.9	2189.3	2202.2	2203.3	2192.0	2158.2	2100.2	2012.1	1913.4
30°	1979.9	1972.4	2005.7	2022.3	2066.4	2092.7	2111.4	2109.3	2076.0	2004.6	1910.7
32.5°	1743.7	1764.1	1787.7	1826.9	1879.0	1940.2	1986.4	2020.7	2017.5	1970.8	1892.4
35°	1527.9	1527.9	1558.0	1606.3	1661.6	1735.1	1812.4	1876.3	1915.5	1903.7	1848.4
37.5°	1293.8	1308.3	1342.7	1380.3	1447.9	1518.8	1620.8	1705.6	1787.7	1812.4	1784.0
40°	1118.8	1125.2	1161.8	1193.4	1262.7	1336.2	1421.6	1530.0	1624.5	1685.2	1688.9
42.5°	988.9	988.3	1003.4	1031.8	1087.7	1153.2	1245.5	1351.8	1462.4	1548.3	1588.6
45°	864.3	863.3	878.8	907.8	947.5	1005.5	1085.5	1191.8	1305.1	1402.8	1466.2
47.5°	759.1	768.8	775.8	798.3	831.1	880.4	949.2	1034.0	1143.0	1252.5	1337.8
50°	674.3	678.6	693.6	704.4	740.9	775.2	830.5	906.7	1000.2	1115.0	1207.4
52.5°	606.6	609.3	618.5	632.4	653.4	683.4	727.4	797.8	882.1	981.9	1077.5
55°	549.7	548.1	554.0	563.2	581.4	606.6	638.9	692.5	766.1	862.2	950.2
57.5°	493.9	493.9	499.3	505.7	515.9	536.9	568.5	610.9	670.0	755.4	833.2
60°	439.1	442.9	445.1	451.5	460.1	475.7	499.3	532.6	582.5	652.3	729.6
62.5°	390.8	390.8	394.6	396.7	408.0	419.3	436.5	464.9	504.1	566.4	626.5
65°	340.4	343.6	343.6	347.9	357.5	366.1	379.6	401.0	433.2	477.8	534.2
67.5°	297.4	297.4	300.1	302.2	307.6	313.5	325.3	342.0	369.4	404.8	455.8
70°	253.4	255.0	253.9	256.6	259.8	265.7	274.3	288.3	308.2	338.8	376.3
72.5°	213.7	211.5	212.6	215.3	216.9	220.6	226.0	236.8	252.9	277.6	304.9
75°	170.7	169.6	173.4	172.3	175.0	178.2	183.1	191.1	203.5	220.6	241.6
77.5°	133.1	131.5	133.1	134.2	135.3	138.0	141.7	146.6	155.2	166.4	185.2
80°	95.6	95.0	96.1	97.2	97.7	102.0	103.1	107.9	111.7	120.3	129.4
82.5°	63.3	64.4	65.0	66.0	65.5	67.6	68.7	71.9	75.2	79.5	86.4
85°	36.5	34.9	36.5	36.5	36.5	39.2	38.7	40.8	42.9	45.1	49.9
87.5°	12.9	12.9	13.4	14.0	14.0	15.6	15.0	16.1	18.3	18.3	19.9
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):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1315.3	1315.3	1315.3	1315.3	1315.3	1315.3	1315.3	1315.3	1315.3	1315.3	1315.3
2.5°	1367.9	1362.0	1357.7	1345.4	1337.8	1330.9	1324.4	1317.4	1309.9	1300.3	1294.4
5°	1428.6	1415.7	1396.9	1379.7	1360.4	1343.2	1329.3	1313.7	1296.5	1278.8	1263.2
7.5°	1495.7	1471.5	1442.5	1410.9	1380.8	1355.6	1329.3	1304.6	1280.4	1256.8	1234.8
10°	1562.8	1520.9	1482.8	1439.3	1399.6	1361.5	1327.1	1292.7	1262.7	1231.5	1203.6
12.5°	1625.1	1574.6	1518.8	1464.5	1411.4	1362.0	1319.6	1277.7	1239.1	1202.0	1169.3
15°	1672.8	1609.5	1543.5	1479.0	1417.8	1366.3	1311.0	1256.8	1216.5	1171.4	1135.4
17.5°	1727.6	1652.4	1586.9	1509.6	1433.4	1350.2	1291.7	1232.6	1184.3	1140.8	1104.8
20°	1764.1	1681.4	1586.9	1499.4	1421.1	1346.4	1276.1	1208.5	1157.5	1107.0	1063.5
22.5°	1793.1	1707.7	1603.6	1512.3	1414.1	1323.9	1247.7	1181.1	1121.0	1073.2	1031.8
25°	1808.1	1704.0	1604.7	1494.1	1395.8	1309.4	1223.5	1149.9	1089.3	1036.1	1000.7
27.5°	1808.7	1701.8	1584.3	1474.7	1369.5	1276.1	1191.3	1118.8	1050.6	999.6	957.2
30°	1806.0	1687.9	1563.9	1444.1	1339.5	1243.9	1155.3	1080.2	1017.9	963.7	923.4
32.5°	1788.8	1668.5	1533.3	1407.6	1293.8	1197.7	1116.1	1041.5	974.9	925.5	883.1
35°	1750.1	1626.1	1490.3	1360.9	1253.0	1153.2	1072.6	997.5	937.9	884.2	840.7
37.5°	1700.8	1584.8	1446.8	1311.5	1195.0	1100.6	1024.9	954.0	891.7	842.3	798.8
40°	1638.5	1529.5	1393.7	1253.0	1136.5	1041.0	969.6	903.5	850.4	799.9	757.5
42.5°	1553.1	1469.4	1329.8	1192.9	1071.0	980.8	911.6	856.8	802.1	756.4	714.0
45°	1461.9	1385.6	1261.6	1125.8	1008.7	915.9	850.9	800.5	753.7	707.6	673.2
47.5°	1360.9	1298.7	1183.8	1051.2	935.7	853.6	789.7	744.6	701.7	666.2	631.9
50°	1240.7	1207.9	1100.6	980.3	868.1	783.8	731.2	685.0	653.4	619.0	586.8
52.5°	1129.0	1102.7	1015.2	897.1	795.1	721.0	664.6	628.1	597.0	571.8	546.0
55°	1007.7	994.3	920.2	818.2	725.8	651.7	603.4	570.1	545.4	521.8	503.0
57.5°	896.0	894.9	829.4	741.9	651.7	588.9	542.8	515.4	493.9	477.3	461.2
60°	781.7	790.8	737.1	657.1	585.7	526.7	484.8	460.1	445.6	430.0	416.6
62.5°	678.0	692.0	643.2	580.3	510.0	461.7	429.5	410.7	394.6	383.3	373.1
65°	578.7	596.4	556.7	500.3	446.7	401.0	373.7	355.9	343.6	337.1	330.2
67.5°	491.2	500.9	474.0	430.0	385.5	345.7	323.2	307.6	296.9	294.2	286.1
70°	403.7	415.0	396.2	355.9	321.6	292.6	272.2	259.8	253.4	249.6	244.3
72.5°	333.4	338.2	319.4	291.5	264.1	240.0	224.9	215.8	208.3	206.7	204.0
75°	260.9	267.9	252.9	231.4	208.8	191.7	180.4	172.9	169.1	166.4	166.4
77.5°	197.0	202.9	194.3	175.6	162.1	147.1	139.6	132.6	131.0	128.3	129.4
80°	140.1	142.8	138.0	125.1	113.3	105.2	98.8	95.0	94.5	92.3	94.5
82.5°	92.9	93.4	88.0	82.1	73.0	68.7	64.4	62.8	62.3	62.3	61.2
85°	51.5	52.6	48.9	45.1	41.9	38.1	37.0	36.0	34.9	36.5	37.6
87.5°	19.9	20.4	19.9	18.3	17.2	16.1	15.6	16.6	15.0	16.1	16.6
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°	1315.3	1315.3	1315.3	1315.3	1315.3	1315.3	1315.3	1315.3	1315.3	1315.3	1315.3
2.5°	1285.2	1280.9	1274.5	1263.8	1256.2	1248.2	1245.0	1246.0	1242.8	1238.5	1239.6
5°	1251.4	1239.1	1228.3	1213.3	1199.3	1187.5	1183.8	1178.9	1174.6	1172.0	1169.3
7.5°	1215.4	1198.3	1182.2	1167.1	1151.0	1136.0	1130.1	1125.8	1123.6	1116.1	1112.9
10°	1181.1	1161.2	1141.9	1124.2	1107.5	1090.9	1085.0	1079.6	1072.1	1068.9	1065.1
12.5°	1144.6	1124.7	1103.8	1082.3	1065.7	1052.2	1042.0	1038.3	1030.8	1027.5	1025.4
15°	1109.1	1085.0	1068.3	1051.7	1026.5	1011.4	1007.1	993.7	989.4	983.0	978.7
17.5°	1073.7	1051.2	1026.5	1007.1	991.6	972.8	962.6	956.7	948.6	942.7	934.7
20°	1038.8	1012.5	993.2	969.0	951.8	934.7	921.8	916.4	909.4	901.4	890.1
22.5°	1005.0	976.0	957.2	934.7	913.2	893.3	882.6	875.1	861.1	859.5	849.3
25°	965.3	939.5	914.8	891.2	870.2	850.4	843.4	831.6	826.8	817.1	815.5
27.5°	927.7	900.3	873.5	847.7	829.4	815.5	803.1	795.6	790.8	783.3	783.8
30°	888.5	858.4	833.2	809.6	789.7	776.3	768.2	764.5	757.5	756.4	752.7
32.5°	846.6	819.2	792.9	772.0	751.6	739.8	736.0	732.3	728.0	728.5	727.4
35°	804.7	780.6	752.7	733.3	716.7	709.7	703.8	702.7	701.1	702.2	702.2
37.5°	763.9	737.6	714.6	696.8	687.2	677.5	674.8	674.3	674.8	675.9	678.6
40°	724.2	700.1	677.5	663.0	652.3	648.0	644.2	645.8	648.0	651.7	655.0
42.5°	684.5	661.4	642.6	628.1	617.9	615.8	616.3	619.5	620.1	625.4	631.3
45°	642.6	622.8	605.0	593.8	587.3	584.6	585.7	588.9	592.7	600.2	607.7
47.5°	604.0	586.2	570.7	559.4	554.6	553.5	555.6	559.9	568.5	576.0	584.6
50°	564.8	548.7	534.2	524.0	523.4	519.7	524.5	529.9	540.1	550.3	563.2
52.5°	526.1	510.5	498.2	490.1	488.0	488.0	493.9	503.6	512.7	526.1	537.9
55°	485.9	471.9	460.1	457.4	454.2	455.8	462.2	471.9	484.8	499.8	512.7
57.5°	444.5	432.7	424.1	420.4	418.7	424.1	431.6	441.8	458.5	473.5	487.5
60°	405.3	395.1	386.0	384.9	383.9	390.8	400.0	410.7	427.3	442.4	459.5
62.5°	363.5	355.4	349.5	347.9	347.9	354.9	365.1	379.0	394.6	410.7	428.9
65°	321.0	314.1	312.4	310.3	315.1	319.4	329.6	343.1	359.7	377.4	396.7
67.5°	281.8	277.6	274.3	274.3	278.1	286.1	295.3	308.7	325.9	344.7	361.8
70°	242.7	238.4	235.7	238.4	240.5	250.2	259.8	272.7	288.8	307.1	325.3
72.5°	201.9	202.4	202.9	202.4	204.5	213.7	223.3	235.7	251.2	269.0	285.6
75°	165.9	163.2	163.7	164.8	171.8	176.6	186.3	198.1	214.7	230.8	244.8
77.5°	128.8	127.8	130.5	130.5	136.9	142.8	150.9	162.7	177.2	191.7	202.9
80°	94.5	95.0	97.2	97.7	103.1	109.5	118.1	126.2	139.0	149.2	160.0
82.5°	63.9	65.0	67.6	71.4	73.5	77.3	84.8	93.4	102.5	113.3	119.7
85°	37.0	38.7	40.8	43.5	45.6	49.4	54.8	61.7	68.2	74.1	79.5
87.5°	18.3	18.3	19.9	20.9	22.5	24.7	28.5	31.1	35.4	39.7	41.9
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: P243521

CATALOG NUMBER: S124DRP-H1020D940-X4F0-XX-UDD-A-W

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	1315.3	1315.3	1315.3	1315.3
2.5°	1237.5	1236.9	1234.8	1235.8
5°	1167.7	1162.3	1161.8	1159.6
7.5°	1107.5	1105.9	1105.9	1101.6
10°	1061.4	1056.5	1057.6	1055.5
12.5°	1017.3	1014.7	1011.4	1008.2
15°	967.9	967.9	967.9	958.8
17.5°	929.3	928.8	926.1	925.5
20°	889.0	886.9	879.9	884.7
22.5°	848.2	846.6	840.7	841.8
25°	810.1	808.5	807.4	803.1
27.5°	777.4	777.9	779.0	776.3
30°	752.7	751.1	753.2	750.5
32.5°	729.6	729.6	727.4	728.0
35°	703.3	705.4	706.0	705.4
37.5°	680.2	682.9	685.0	682.9
40°	658.7	660.9	663.0	662.5
42.5°	636.2	639.9	641.5	643.2
45°	614.7	619.5	622.2	622.8
47.5°	592.7	598.6	604.0	603.4
50°	571.2	578.7	583.6	583.0
52.5°	549.7	557.3	563.2	565.8
55°	525.6	535.2	540.6	545.4
57.5°	501.4	512.2	517.5	519.7
60°	474.6	484.2	491.2	492.8
62.5°	444.5	454.7	463.8	466.0
65°	413.4	424.7	431.6	432.7
67.5°	377.4	388.1	395.1	398.3
70°	340.4	348.4	355.9	360.8
72.5°	299.0	308.7	315.7	318.9
75°	256.1	266.8	270.6	272.7
77.5°	211.5	218.0	223.9	224.4
80°	167.0	175.0	177.2	182.5
82.5°	122.9	130.5	128.8	131.0
85°	81.1	83.7	85.4	85.9
87.5°	42.9	44.6	45.6	46.2
90°	0.0	0.0	0.0	0.0

TEST NUMBER: P243521  
 CATALOG NUMBER: S124DRP-H1020D940-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	19.11	20.68	19.48	21.00	21.31	19.40	20.97	19.76	21.28	21.60
	3H	20.55	21.97	20.93	22.30	22.66	20.78	22.20	21.16	22.53	22.89
	4H	21.07	22.40	21.47	22.75	23.13	21.27	22.60	21.67	22.95	23.32
	6H	21.42	22.65	21.83	23.01	23.41	21.58	22.82	22.00	23.18	23.57
	8H	21.51	22.69	21.94	23.08	23.48	21.67	22.84	22.09	23.23	23.63
	12H	21.56	22.69	21.99	23.07	23.50	21.71	22.84	22.14	23.22	23.65
4H	2H	20.25	21.58	20.65	21.93	22.30	20.19	21.52	20.59	21.87	22.24
	3H	21.75	22.86	22.16	23.26	23.66	21.90	23.01	22.31	23.40	23.80
	4H	22.32	23.33	22.76	23.74	24.18	22.49	23.49	22.92	23.90	24.34
	6H	22.74	23.61	23.19	24.05	24.51	22.89	23.76	23.35	24.21	24.66
	8H	22.85	23.67	23.32	24.11	24.58	23.00	23.81	23.46	24.26	24.72
	12H	22.93	23.66	23.41	24.14	24.61	23.06	23.79	23.54	24.27	24.74
8H	4H	22.75	23.57	23.21	24.01	24.48	22.83	23.64	23.29	24.09	24.55
	6H	23.25	23.92	23.74	24.41	24.89	23.36	24.04	23.85	24.53	25.00
	8H	23.41	24.02	23.92	24.53	25.01	23.52	24.13	24.03	24.64	25.13
	12H	23.53	24.07	24.04	24.56	25.12	23.64	24.18	24.15	24.67	25.23
12H	4H	22.79	23.53	23.27	24.00	24.47	22.86	23.59	23.34	24.07	24.54
	6H	23.31	23.92	23.83	24.43	24.92	23.42	24.03	23.93	24.54	25.03
	8H	23.53	24.07	24.04	24.56	25.12	23.64	24.18	24.15	24.67	25.24