

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: P242656

Luminaire Tested: S124DRP-S1020D935-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2024  
Report Number: P242656  
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-S1020D935-X4F0-XX-UDD-A-W  
Description: DEFINE 4 DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER  
STANDARD LIGHT ENGINE  
Light Source: (92) 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

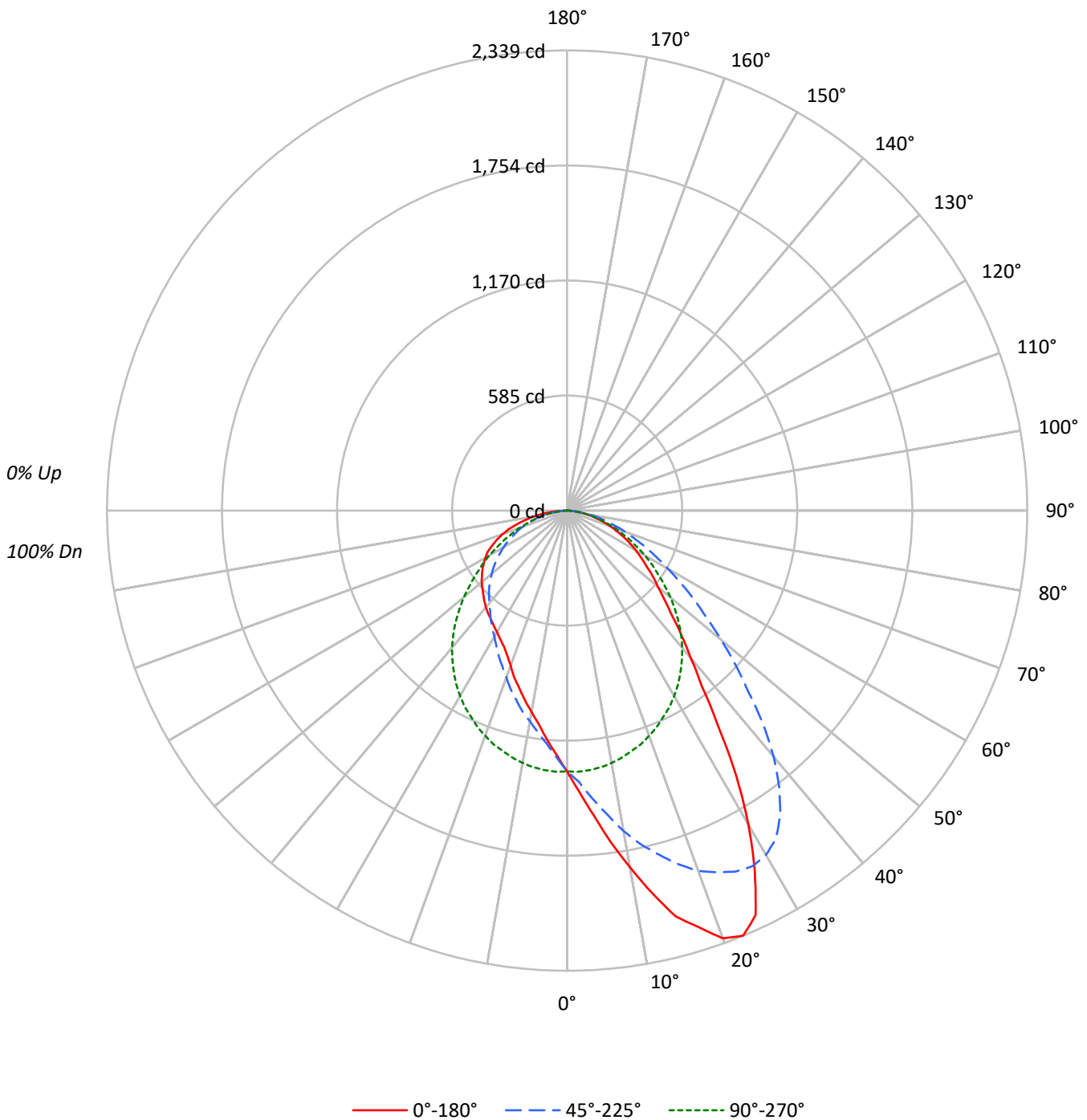
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3657.0 lumens  
Efficiency: N/A  
Efficacy: 105.1 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): 34.8  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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°	11780	11780	11780	11780	11780
5°	13873	13104	11810	10616	10425
10°	16610	14930	11759	9821	9385
15°	19653	16677	11640	9175	8619
20°	21884	18435	11519	8538	7935
25°	22238	19853	11340	8039	7463
30°	18922	20748	11168	7590	7314
35°	14548	20487	10890	7345	7316
40°	11339	18933	10562	7141	7453
45°	9455	16384	10069	7053	7578
50°	8321	14129	9467	6924	7835
55°	7623	12158	8747	6797	8150
60°	7145	10521	8101	6628	8530
65°	6651	9191	7378	6409	8844
70°	6079	8119	6664	6235	9047
75°	5430	6996	5863	5825	8936
80°	4551	5677	4807	5313	8656
85°	3355	4314	3468	4926	8292

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 55°  
 Vertical Angle: 45°  
 Luminance: 18088 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	129.0	3.5
10°-20°	398.1	10.9
20°-30°	632.5	17.3
30°-40°	702.7	19.2
40°-50°	639.1	17.5
50°-60°	522.2	14.3
60°-70°	372.8	10.2
70°-80°	205.1	5.6
80°-90°	55.4	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°	1159.5	31.7
0°-40°	1862.3	50.9
0°-60°	3023.6	82.7
0°-90°	3657.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3657.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1325	1325	1325	1325	1325	
5°	1555	1469	1324	1190	1168	157
15°	2136	1812	1265	997	937	604
25°	2267	2024	1156	820	761	1006
35°	1341	1888	1004	677	674	849
45°	752	1303	801	561	603	591
55°	492	784	564	439	526	444
65°	316	437	351	305	420	313
75°	158	204	171	170	260	168
85°	33	42	34	48	81	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°	1325.3	1325.3	1325.3	1325.3	1325.3	1325.3	1325.3	1325.3	1325.3	1325.3	1325.3
2.5°	1431.8	1431.2	1425.7	1424.6	1420.8	1415.9	1414.8	1406.0	1388.4	1380.2	1378.0
5°	1554.8	1565.7	1551.5	1548.7	1547.1	1529.0	1519.6	1508.6	1483.4	1468.6	1457.0
7.5°	1698.6	1699.1	1693.1	1687.1	1676.6	1661.3	1640.4	1616.2	1587.1	1557.5	1536.6
10°	1840.2	1844.6	1837.5	1836.4	1808.4	1790.8	1755.7	1726.0	1692.0	1654.1	1619.5
12.5°	1989.6	1980.8	1978.0	1948.9	1949.5	1913.8	1871.5	1840.8	1783.7	1738.7	1689.8
15°	2135.6	2123.5	2115.8	2083.4	2067.5	2023.1	1979.7	1946.2	1877.6	1812.2	1762.8
17.5°	2220.1	2235.0	2215.2	2202.0	2158.7	2129.6	2086.2	2017.6	1966.5	1885.3	1828.7
20°	2313.5	2314.6	2304.7	2291.0	2258.6	2219.0	2170.7	2093.9	2029.6	1948.9	1863.3
22.5°	2338.7	2338.7	2336.0	2323.4	2300.8	2270.7	2221.8	2160.9	2079.6	1990.1	1904.5
25°	2267.4	2265.2	2270.1	2284.4	2275.0	2265.2	2237.2	2189.4	2116.9	2024.2	1931.9
27.5°	2065.3	2079.6	2109.2	2144.4	2169.6	2192.1	2190.5	2170.2	2118.6	2038.4	1940.2
30°	1843.5	1862.2	1883.1	1918.2	1986.3	2025.2	2068.1	2100.5	2082.3	2021.4	1931.4
32.5°	1599.8	1600.9	1634.4	1675.5	1736.5	1820.5	1894.6	1968.7	2000.5	1975.8	1904.5
35°	1340.7	1348.3	1381.8	1421.4	1497.7	1589.3	1691.5	1782.6	1857.8	1888.0	1849.6
37.5°	1123.2	1147.4	1172.7	1217.7	1287.4	1370.3	1480.1	1593.7	1704.1	1771.1	1778.2
40°	977.2	990.9	1008.0	1040.3	1097.4	1178.7	1269.8	1404.9	1524.0	1631.6	1666.8
42.5°	861.9	868.5	877.3	905.8	945.9	1026.6	1107.9	1222.6	1342.3	1476.3	1541.0
45°	752.1	760.4	777.9	794.9	827.9	883.9	961.3	1059.0	1179.2	1303.3	1412.0
47.5°	669.8	675.3	686.2	704.9	734.6	772.4	838.3	921.2	1038.7	1158.9	1275.3
50°	601.7	606.1	614.3	630.8	652.2	685.1	736.8	813.1	900.4	1021.7	1135.3
52.5°	547.9	549.0	554.5	564.4	580.3	606.6	646.7	706.6	786.2	891.0	1004.1
55°	491.9	494.1	499.6	507.8	522.6	540.2	572.6	619.8	690.6	784.5	882.8
57.5°	445.8	448.0	452.4	455.7	468.8	483.7	510.0	544.1	599.5	683.0	772.4
60°	401.9	400.8	406.3	409.0	417.2	429.3	448.5	480.9	527.6	591.8	672.5
62.5°	359.0	357.4	361.8	365.6	369.5	379.4	394.2	417.8	453.5	510.0	577.0
65°	316.2	314.0	316.8	321.2	325.6	331.0	342.6	365.1	395.3	437.0	490.3
67.5°	272.3	275.0	275.0	277.8	280.5	288.2	296.5	314.0	335.4	369.5	416.7
70°	233.9	234.4	236.6	236.6	238.3	244.9	251.4	260.8	281.6	312.4	349.2
72.5°	195.4	198.2	196.5	198.7	199.8	203.7	208.1	216.9	233.9	254.7	284.4
75°	158.1	159.8	159.8	160.3	162.0	163.6	167.4	174.0	186.7	203.7	225.1
77.5°	121.9	121.9	123.0	125.2	125.2	127.9	131.2	136.2	143.3	155.9	169.6
80°	88.9	90.0	89.5	90.6	90.6	92.8	93.9	100.5	103.2	110.9	121.3
82.5°	59.3	60.4	60.4	62.0	63.1	63.1	64.8	66.4	69.2	75.8	78.5
85°	32.9	34.0	32.9	34.0	35.7	36.2	37.9	38.4	40.6	42.3	46.1
87.5°	12.1	13.7	13.7	14.3	15.4	15.9	16.5	15.9	18.1	18.7	20.9
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°	1325.3	1325.3	1325.3	1325.3	1325.3	1325.3	1325.3	1325.3	1325.3	1325.3	1325.3
2.5°	1378.5	1370.8	1365.4	1361.0	1348.9	1341.7	1336.3	1328.6	1319.8	1310.5	1298.9
5°	1445.5	1426.8	1413.1	1392.3	1372.5	1356.0	1339.0	1323.6	1305.0	1284.7	1269.8
7.5°	1514.1	1488.3	1453.7	1426.8	1394.5	1366.5	1341.7	1315.9	1288.5	1262.1	1237.4
10°	1578.9	1543.2	1503.7	1457.0	1413.1	1374.1	1337.9	1302.8	1268.7	1234.7	1205.6
12.5°	1648.6	1602.0	1538.8	1482.3	1431.8	1376.3	1330.8	1285.8	1242.9	1206.7	1171.6
15°	1709.6	1645.3	1577.8	1504.8	1440.0	1379.1	1319.2	1264.9	1218.8	1171.6	1138.6
17.5°	1748.0	1668.4	1595.9	1519.6	1445.0	1368.6	1306.6	1245.7	1188.6	1142.5	1101.3
20°	1785.9	1706.8	1610.8	1534.4	1441.1	1362.1	1287.4	1217.7	1157.3	1107.3	1064.5
22.5°	1818.8	1724.4	1628.3	1521.8	1429.0	1343.9	1260.5	1190.2	1128.2	1074.9	1034.3
25°	1826.5	1721.7	1617.3	1517.4	1412.0	1312.7	1238.5	1156.2	1090.3	1034.9	990.9
27.5°	1829.3	1718.4	1602.5	1493.8	1385.1	1294.5	1197.9	1126.0	1057.9	999.2	957.5
30°	1823.2	1706.3	1579.5	1459.2	1350.0	1249.5	1168.3	1088.1	1018.4	960.2	916.3
32.5°	1804.0	1681.0	1549.8	1420.8	1306.6	1208.9	1124.3	1049.1	981.6	924.5	877.8
35°	1763.4	1643.1	1504.3	1371.9	1256.1	1156.7	1081.0	1003.6	935.5	881.1	836.7
37.5°	1709.0	1597.0	1455.9	1318.1	1206.7	1105.7	1029.4	958.0	896.5	840.5	794.4
40°	1633.3	1537.7	1396.1	1262.7	1139.7	1044.7	974.5	910.2	849.3	797.1	753.8
42.5°	1546.0	1465.8	1337.9	1194.6	1077.1	981.6	913.5	857.5	801.0	753.8	710.4
45°	1438.9	1384.0	1261.0	1130.4	1006.9	916.8	851.5	801.0	752.7	705.5	669.2
47.5°	1319.8	1289.0	1182.0	1056.8	938.2	848.2	791.7	743.3	699.4	658.2	625.9
50°	1199.6	1186.4	1096.9	977.2	865.2	781.8	724.7	684.6	648.4	613.2	583.0
52.5°	1081.0	1083.7	1005.2	898.2	796.6	717.0	660.4	623.7	593.5	566.6	540.2
55°	959.6	975.0	911.9	814.2	721.4	648.9	597.9	564.4	542.4	518.8	498.5
57.5°	848.2	874.0	819.1	729.6	651.1	581.9	536.9	511.1	487.0	471.6	455.7
60°	739.5	763.7	723.0	650.6	577.5	520.4	478.2	455.7	435.4	425.5	415.0
62.5°	642.9	663.7	636.3	570.4	509.5	455.1	421.1	399.7	387.6	376.6	370.6
65°	551.7	569.9	544.1	495.2	440.8	396.9	367.8	350.8	337.6	333.2	325.6
67.5°	461.7	478.2	464.5	421.6	375.5	340.9	317.9	299.8	292.1	287.7	282.7
70°	383.2	399.7	384.8	348.6	315.1	287.1	265.7	256.4	248.1	246.5	238.8
72.5°	316.8	326.7	311.8	285.5	258.0	235.5	220.1	210.3	207.0	203.7	200.4
75°	247.6	257.5	247.6	225.6	205.3	188.9	174.6	170.7	165.8	164.2	161.4
77.5°	185.6	194.9	187.2	172.4	156.5	142.7	134.5	129.0	128.5	125.2	126.3
80°	134.0	139.4	132.3	123.0	110.9	102.1	96.6	93.9	90.6	89.5	91.7
82.5°	86.7	88.4	85.6	80.2	71.9	67.0	63.7	60.4	60.4	60.9	60.4
85°	50.0	49.4	48.9	43.4	40.6	36.8	34.6	34.0	33.5	34.6	35.7
87.5°	20.9	21.4	20.9	18.7	17.0	15.4	14.8	14.3	14.8	15.4	15.9
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):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1325.3	1325.3	1325.3	1325.3	1325.3	1325.3	1325.3	1325.3	1325.3	1325.3	1325.3
2.5°	1293.4	1288.5	1281.4	1271.5	1263.2	1254.5	1252.3	1249.0	1255.6	1250.1	1248.4
5°	1257.2	1245.7	1230.9	1213.8	1204.0	1189.7	1186.9	1181.4	1176.0	1175.4	1169.9
7.5°	1219.3	1203.4	1184.7	1167.2	1151.8	1136.4	1126.5	1125.4	1116.7	1112.3	1106.8
10°	1183.1	1162.2	1139.7	1123.2	1104.6	1088.1	1076.6	1070.0	1064.5	1058.5	1053.0
12.5°	1140.3	1117.8	1100.2	1082.1	1059.0	1047.5	1026.6	1014.0	1014.0	1015.6	999.2
15°	1109.0	1087.0	1058.5	1033.2	1021.1	997.0	986.5	973.4	965.1	956.9	950.3
17.5°	1070.5	1043.6	1021.7	993.1	970.6	952.5	938.2	931.1	917.9	905.8	897.6
20°	1034.9	1005.8	982.2	951.4	926.2	902.6	891.0	880.0	870.7	860.8	851.5
22.5°	998.6	967.9	937.7	908.0	885.0	859.7	848.7	832.8	824.0	819.7	810.3
25°	960.2	927.3	894.3	865.8	841.6	819.7	804.8	793.3	783.4	779.0	773.0
27.5°	918.5	886.1	854.8	821.8	793.8	777.9	765.9	756.5	750.5	743.9	741.1
30°	878.9	844.9	810.9	780.7	755.4	739.5	728.5	722.5	718.1	715.3	712.6
32.5°	838.9	805.4	769.1	742.2	720.3	706.6	698.9	692.8	691.2	690.6	690.1
35°	795.5	761.5	728.5	703.8	682.4	676.9	669.8	666.5	665.4	669.2	670.9
37.5°	753.8	721.9	691.2	666.5	652.2	643.4	640.7	640.1	644.0	647.3	651.1
40°	713.7	683.0	654.4	633.5	620.4	615.4	614.3	617.1	621.5	625.3	629.7
42.5°	674.7	644.5	619.3	600.1	591.8	587.4	588.5	591.3	597.9	602.8	609.9
45°	634.1	608.8	583.6	567.7	560.0	561.1	561.1	566.0	572.1	579.2	586.3
47.5°	596.2	570.4	549.0	535.3	531.4	529.8	532.5	539.1	547.3	555.6	565.5
50°	557.8	533.6	515.5	503.4	499.0	500.7	505.1	511.1	521.5	532.5	543.0
52.5°	518.8	497.4	480.9	469.9	467.2	470.5	474.9	485.3	494.1	506.2	519.4
55°	478.2	459.5	446.3	438.1	437.0	438.6	443.6	454.0	467.2	482.0	494.1
57.5°	438.1	422.2	409.6	403.5	404.1	405.2	412.8	425.5	438.6	454.6	469.9
60°	397.5	383.2	373.3	368.9	369.5	372.8	382.7	394.2	411.7	427.1	443.6
62.5°	359.0	347.0	337.6	333.8	332.7	340.9	350.3	362.3	379.9	397.5	415.6
65°	317.3	307.4	299.8	297.6	299.2	304.7	316.8	332.7	347.5	365.6	384.3
67.5°	276.7	268.5	263.0	264.1	265.7	273.4	283.8	297.6	314.0	332.7	351.9
70°	238.3	230.6	226.2	226.7	230.0	239.9	248.7	262.4	280.5	299.8	315.1
72.5°	198.7	194.3	190.5	193.2	196.5	202.6	214.1	227.8	243.2	260.8	277.2
75°	158.7	158.7	156.5	158.1	163.1	169.6	177.9	192.1	208.1	222.3	235.5
77.5°	124.6	123.0	124.1	125.7	129.0	137.2	146.6	157.0	169.6	184.5	195.4
80°	90.0	90.6	93.3	96.6	97.7	103.8	113.6	123.0	132.3	144.4	154.8
82.5°	62.0	62.6	63.7	68.1	69.2	75.8	81.3	90.6	98.8	106.0	114.2
85°	36.8	36.8	39.5	41.2	43.9	48.3	52.2	57.6	65.3	70.8	79.1
87.5°	17.6	17.6	19.8	20.9	22.5	25.3	26.4	32.4	34.6	37.3	42.3
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: P242656

CATALOG NUMBER: S124DRP-S1020D935-X4F0-XX-UDD-A-W

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	1325.3	1325.3	1325.3	1325.3
2.5°	1247.3	1246.2	1242.4	1241.8
5°	1166.6	1163.9	1162.2	1168.3
7.5°	1105.7	1103.5	1098.5	1096.9
10°	1047.5	1045.3	1040.9	1039.8
12.5°	991.5	986.5	986.5	988.2
15°	943.2	941.0	934.9	936.6
17.5°	893.8	891.6	883.3	891.6
20°	847.7	843.3	839.4	838.9
22.5°	803.7	799.9	800.4	796.0
25°	768.6	764.8	763.7	760.9
27.5°	740.0	737.9	735.7	736.8
30°	714.2	713.7	712.6	712.6
32.5°	692.8	692.8	693.9	693.9
35°	673.1	674.7	675.8	674.2
37.5°	655.5	656.6	658.2	659.9
40°	634.6	638.5	639.6	642.3
42.5°	614.9	619.3	622.6	622.6
45°	594.6	599.0	602.8	602.8
47.5°	573.7	579.7	583.6	584.1
50°	552.3	560.0	563.8	566.6
52.5°	531.4	539.1	544.6	545.7
55°	506.7	517.7	523.7	525.9
57.5°	484.8	494.6	501.2	502.9
60°	458.4	469.4	478.2	479.8
62.5°	431.5	443.0	450.7	455.7
65°	399.7	411.2	418.9	420.5
67.5°	366.2	378.3	383.2	386.5
70°	330.5	339.8	345.3	348.1
72.5°	289.9	299.8	306.3	306.3
75°	248.1	256.9	260.2	260.2
77.5°	204.8	209.7	214.1	215.2
80°	163.1	165.8	169.1	169.1
82.5°	120.2	122.4	125.7	125.2
85°	78.0	82.9	82.3	81.3
87.5°	43.9	44.5	46.1	47.2
90°	0.0	0.0	0.0	0.0

TEST NUMBER: P242656  
 CATALOG NUMBER: S124DRP-S1020D935-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	18.54	20.10	18.90	20.41	20.73	19.45	21.01	19.81	21.32	21.64
	3H	20.02	21.43	20.40	21.75	22.11	20.81	22.22	21.19	22.55	22.91
	4H	20.56	21.88	20.96	22.23	22.61	21.29	22.61	21.69	22.96	23.33
	6H	20.92	22.14	21.33	22.51	22.90	21.59	22.82	22.01	23.18	23.57
	8H	21.02	22.19	21.44	22.57	22.97	21.67	22.84	22.10	23.23	23.63
	12H	21.07	22.19	21.50	22.57	23.00	21.71	22.83	22.14	23.21	23.64
4H	2H	19.70	21.02	20.10	21.37	21.74	20.13	21.46	20.53	21.80	22.18
	3H	21.23	22.33	21.64	22.73	23.13	21.84	22.94	22.25	23.34	23.74
	4H	21.81	22.81	22.25	23.22	23.66	22.43	23.42	22.86	23.84	24.28
	6H	22.24	23.11	22.70	23.55	24.01	22.83	23.69	23.28	24.14	24.59
	8H	22.36	23.18	22.83	23.62	24.09	22.93	23.74	23.39	24.19	24.65
	12H	22.44	23.17	22.92	23.64	24.11	23.00	23.72	23.48	24.20	24.67
8H	4H	22.27	23.08	22.73	23.52	23.99	22.74	23.56	23.21	24.00	24.47
	6H	22.78	23.45	23.27	23.94	24.41	23.27	23.94	23.77	24.43	24.91
	8H	22.95	23.55	23.46	24.06	24.55	23.44	24.04	23.95	24.55	25.03
	12H	23.07	23.60	23.58	24.09	24.66	23.55	24.08	24.06	24.57	25.14
12H	4H	22.32	23.04	22.80	23.52	23.99	22.78	23.50	23.26	23.98	24.45
	6H	22.85	23.45	23.36	23.96	24.45	23.33	23.93	23.84	24.44	24.93
	8H	23.07	23.60	23.58	24.10	24.66	23.55	24.08	24.06	24.57	25.14