

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: P243510

Luminaire Tested: S124DRP-H795D930-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2024  
Report Number: P243510  
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-H795D930-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: -

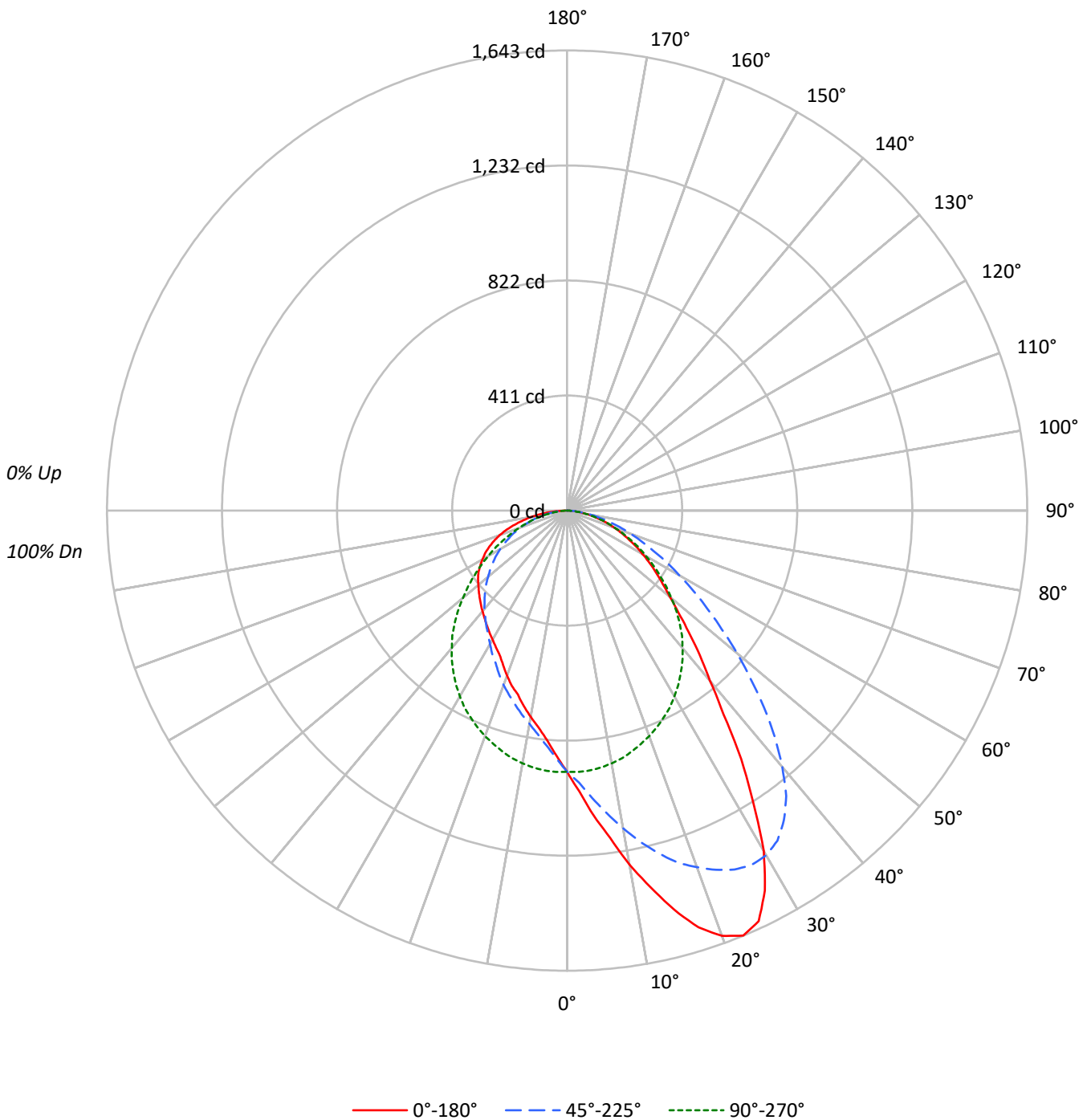
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2673.9 lumens  
Efficiency: N/A  
Efficacy: 113.3 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): 23.6  
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°	8289	8289	8289	8289	8289
5°	9754	9197	8311	7512	7335
10°	11591	10399	8272	6981	6754
15°	13576	11663	8199	6599	6256
20°	15287	12817	8105	6269	5934
25°	15865	13868	7996	5913	5585
30°	14408	14587	7860	5649	5461
35°	11754	14646	7674	5460	5427
40°	9204	13863	7433	5331	5450
45°	7703	12502	7134	5211	5550
50°	6611	10932	6717	5094	5715
55°	6039	9474	6264	5007	5993
60°	5534	8220	5799	4926	6212
65°	5075	7124	5307	4764	6453
70°	4670	6243	4787	4611	6648
75°	4156	5371	4211	4300	6642
80°	3466	4366	3450	3972	6624
85°	2642	3264	2601	3570	6211

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 50°  
 Vertical Angle: 45°  
 Luminance: 13067 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	90.8	3.4
10°-20°	281.1	10.5
20°-30°	451.6	16.9
30°-40°	516.3	19.3
40°-50°	475.2	17.8
50°-60°	388.7	14.5
60°-70°	277.0	10.4
70°-80°	152.2	5.7
80°-90°	40.9	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°	823.5	30.8
0°-40°	1339.8	50.1
0°-60°	2203.7	82.4
0°-90°	2673.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2673.9	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	932	932	932	932	932	
5°	1093	1031	931	842	822	110
15°	1475	1267	891	717	680	420
25°	1618	1414	815	603	569	726
35°	1083	1350	707	503	500	673
45°	613	994	568	414	442	478
55°	390	611	404	323	387	350
65°	241	339	252	226	307	241
75°	121	156	123	125	193	129
85°	26	32	26	35	61	31
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°	932.5	932.5	932.5	932.5	932.5	932.5	932.5	932.5	932.5	932.5	932.5
2.5°	1004.1	1001.0	999.5	997.6	997.2	995.3	991.5	986.2	979.3	972.1	972.1
5°	1093.1	1092.4	1086.7	1087.0	1079.8	1071.8	1065.7	1058.1	1043.3	1030.7	1022.0
7.5°	1178.4	1186.4	1184.5	1178.4	1167.7	1156.3	1144.1	1133.5	1106.1	1090.8	1078.3
10°	1284.2	1287.2	1281.9	1273.2	1263.6	1241.6	1225.6	1207.7	1178.0	1152.1	1129.3
12.5°	1377.1	1384.3	1374.8	1366.4	1344.0	1327.6	1311.6	1275.8	1244.6	1211.9	1178.8
15°	1475.3	1467.7	1472.6	1452.0	1436.1	1420.5	1379.7	1343.2	1307.8	1267.4	1232.8
17.5°	1560.5	1560.5	1551.4	1538.1	1521.3	1492.0	1451.3	1410.9	1371.7	1318.8	1269.7
20°	1616.1	1620.3	1609.6	1595.5	1575.4	1544.9	1512.6	1468.8	1416.6	1355.0	1299.4
22.5°	1642.7	1643.5	1639.7	1627.9	1611.5	1585.6	1552.5	1509.9	1454.7	1388.5	1330.2
25°	1617.6	1621.8	1620.7	1619.9	1611.5	1596.7	1570.0	1530.5	1480.2	1414.0	1351.2
27.5°	1529.3	1539.6	1548.3	1552.1	1561.3	1562.0	1554.1	1530.1	1489.0	1426.5	1356.5
30°	1403.7	1398.4	1422.0	1433.8	1465.0	1483.6	1497.0	1495.4	1471.8	1421.2	1354.6
32.5°	1236.2	1250.7	1267.4	1295.2	1332.2	1375.5	1408.3	1432.6	1430.4	1397.2	1341.7
35°	1083.2	1083.2	1104.5	1138.8	1178.0	1230.1	1285.0	1330.2	1358.0	1349.7	1310.5
37.5°	917.3	927.6	951.9	978.6	1026.5	1076.8	1149.1	1209.2	1267.4	1285.0	1264.8
40°	793.2	797.8	823.7	846.1	895.2	947.4	1007.9	1084.8	1151.7	1194.7	1197.4
42.5°	701.1	700.7	711.4	731.5	771.1	817.6	883.0	958.4	1036.8	1097.7	1126.2
45°	612.8	612.0	623.1	643.6	671.8	712.9	769.6	845.0	925.3	994.5	1039.5
47.5°	538.2	545.0	550.0	566.0	589.2	624.2	672.9	733.1	810.3	888.0	948.5
50°	478.1	481.1	491.8	499.4	525.2	549.6	588.8	642.9	709.1	790.5	856.0
52.5°	430.1	432.0	438.5	448.4	463.2	484.5	515.7	565.6	625.4	696.1	763.9
55°	389.7	388.6	392.8	399.3	412.2	430.1	452.9	491.0	543.1	611.3	673.7
57.5°	350.2	350.2	354.0	358.5	365.8	380.6	403.1	433.1	475.0	535.5	590.7
60°	311.3	314.0	315.5	320.1	326.2	337.2	354.0	377.6	413.0	462.4	517.3
62.5°	277.1	277.1	279.8	281.3	289.3	297.3	309.4	329.6	357.4	401.5	444.2
65°	241.3	243.6	243.6	246.6	253.5	259.6	269.1	284.3	307.2	338.7	378.7
67.5°	210.9	210.9	212.8	214.3	218.1	222.3	230.7	242.5	261.9	287.0	323.1
70°	179.7	180.8	180.0	181.9	184.2	188.4	194.5	204.4	218.5	240.2	266.8
72.5°	151.5	150.0	150.7	152.6	153.8	156.4	160.2	167.9	179.3	196.8	216.2
75°	121.0	120.3	122.9	122.2	124.1	126.4	129.8	135.5	144.3	156.4	171.3
77.5°	94.4	93.3	94.4	95.2	95.9	97.8	100.5	103.9	110.0	118.0	131.3
80°	67.7	67.4	68.1	68.9	69.3	72.3	73.1	76.5	79.2	85.3	91.7
82.5°	44.9	45.7	46.1	46.8	46.4	48.0	48.7	51.0	53.3	56.3	61.3
85°	25.9	24.7	25.9	25.9	25.9	27.8	27.4	28.9	30.4	32.0	35.4
87.5°	9.1	9.1	9.5	9.9	9.9	11.0	10.7	11.4	12.9	12.9	14.1
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°	932.5	932.5	932.5	932.5	932.5	932.5	932.5	932.5	932.5	932.5	932.5
2.5°	969.8	965.6	962.6	953.8	948.5	943.5	939.0	934.0	928.7	921.8	917.7
5°	1012.8	1003.7	990.4	978.2	964.5	952.3	942.4	931.4	919.2	906.6	895.6
7.5°	1060.4	1043.3	1022.7	1000.3	978.9	961.1	942.4	924.9	907.8	891.0	875.4
10°	1108.0	1078.3	1051.3	1020.4	992.3	965.2	940.9	916.5	895.2	873.1	853.3
12.5°	1152.1	1116.3	1076.8	1038.3	1000.6	965.6	935.6	905.9	878.5	852.2	829.0
15°	1186.0	1141.1	1094.3	1048.6	1005.2	968.7	929.5	891.0	862.5	830.5	805.0
17.5°	1224.8	1171.5	1125.1	1070.3	1016.2	957.2	915.8	873.9	839.6	808.8	783.3
20°	1250.7	1192.1	1125.1	1063.1	1007.5	954.6	904.7	856.8	820.6	784.8	754.0
22.5°	1271.3	1210.7	1136.9	1072.2	1002.5	938.6	884.5	837.4	794.7	760.8	731.5
25°	1281.9	1208.1	1137.7	1059.3	989.6	928.3	867.4	815.3	772.3	734.6	709.5
27.5°	1282.3	1206.5	1123.2	1045.5	970.9	904.7	844.6	793.2	744.9	708.7	678.6
30°	1280.4	1196.7	1108.7	1023.9	949.6	881.9	819.1	765.8	721.6	683.2	654.7
32.5°	1268.2	1183.0	1087.0	998.0	917.3	849.2	791.3	738.4	691.2	656.2	626.1
35°	1240.8	1152.9	1056.6	964.9	888.4	817.6	760.5	707.2	664.9	626.9	596.0
37.5°	1205.8	1123.6	1025.8	929.8	847.2	780.3	726.6	676.4	632.2	597.2	566.4
40°	1161.6	1084.4	988.1	888.4	805.8	738.0	687.4	640.6	602.9	567.1	537.0
42.5°	1101.1	1041.7	942.8	845.7	759.3	695.4	646.3	607.5	568.6	536.3	506.2
45°	1036.4	982.4	894.4	798.1	715.2	649.3	603.3	567.5	534.4	501.7	477.3
47.5°	964.9	920.7	839.3	745.2	663.4	605.2	559.9	527.9	497.5	472.3	448.0
50°	879.6	856.4	780.3	695.0	615.5	555.7	518.4	485.7	463.2	438.8	416.0
52.5°	800.4	781.8	719.7	636.0	563.7	511.2	471.2	445.3	423.2	405.4	387.1
55°	714.4	704.9	652.4	580.1	514.6	462.1	427.8	404.2	386.7	370.0	356.6
57.5°	635.2	634.5	588.0	526.0	462.1	417.5	384.8	365.4	350.2	338.4	326.9
60°	554.2	560.6	522.6	465.9	415.3	373.4	343.7	326.2	315.9	304.9	295.4
62.5°	480.7	490.6	456.0	411.4	361.6	327.3	304.5	291.2	279.8	271.8	264.5
65°	410.3	422.9	394.7	354.7	316.7	284.3	264.9	252.3	243.6	239.0	234.1
67.5°	348.3	355.1	336.1	304.9	273.3	245.1	229.1	218.1	210.5	208.6	202.9
70°	286.2	294.2	280.9	252.3	228.0	207.4	193.0	184.2	179.7	177.0	173.2
72.5°	236.4	239.8	226.5	206.7	187.3	170.1	159.5	153.0	147.7	146.5	144.6
75°	185.0	189.9	179.3	164.0	148.1	135.9	127.9	122.6	119.9	118.0	118.0
77.5°	139.7	143.9	137.8	124.5	114.9	104.3	99.0	94.0	92.9	91.0	91.7
80°	99.3	101.2	97.8	88.7	80.3	74.6	70.0	67.4	67.0	65.5	67.0
82.5°	65.8	66.2	62.4	58.2	51.8	48.7	45.7	44.5	44.2	44.2	43.4
85°	36.5	37.3	34.6	32.0	29.7	27.0	26.3	25.5	24.7	25.9	26.6
87.5°	14.1	14.5	14.1	12.9	12.2	11.4	11.0	11.8	10.7	11.4	11.8
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°	932.5	932.5	932.5	932.5	932.5	932.5	932.5	932.5	932.5	932.5	932.5
2.5°	911.2	908.1	903.6	896.0	890.6	884.9	882.6	883.4	881.1	878.1	878.8
5°	887.2	878.5	870.8	860.2	850.3	841.9	839.3	835.8	832.8	830.9	829.0
7.5°	861.7	849.5	838.1	827.5	816.0	805.4	801.2	798.1	796.6	791.3	789.0
10°	837.4	823.3	809.6	797.0	785.2	773.4	769.2	765.4	760.1	757.8	755.1
12.5°	811.5	797.4	782.5	767.3	755.5	746.0	738.8	736.1	730.8	728.5	727.0
15°	786.4	769.2	757.4	745.6	727.7	717.1	714.0	704.5	701.5	696.9	693.9
17.5°	761.2	745.2	727.7	714.0	703.0	689.7	682.4	678.3	672.5	668.4	662.7
20°	736.5	717.8	704.1	687.0	674.8	662.7	653.5	649.7	644.8	639.1	631.1
22.5°	712.5	692.0	678.6	662.7	647.4	633.3	625.7	620.4	610.5	609.4	602.1
25°	684.3	666.1	648.6	631.8	617.0	602.9	597.9	589.6	586.1	579.3	578.2
27.5°	657.7	638.3	619.3	601.0	588.0	578.2	569.4	564.1	560.6	555.3	555.7
30°	629.9	608.6	590.7	574.0	559.9	550.4	544.7	542.0	537.0	536.3	533.6
32.5°	600.2	580.8	562.2	547.3	532.9	524.5	521.8	519.2	516.1	516.5	515.7
35°	570.5	553.4	533.6	519.9	508.1	503.2	499.0	498.2	497.1	497.8	497.8
37.5°	541.6	523.0	506.6	494.0	487.2	480.3	478.4	478.1	478.4	479.2	481.1
40°	513.4	496.3	480.3	470.1	462.4	459.4	456.7	457.9	459.4	462.1	464.3
42.5°	485.3	468.9	455.6	445.3	438.1	436.6	436.9	439.2	439.6	443.4	447.6
45°	455.6	441.5	429.0	421.0	416.4	414.5	415.3	417.5	420.2	425.5	430.9
47.5°	428.2	415.6	404.6	396.6	393.2	392.4	393.9	397.0	403.1	408.4	414.5
50°	400.4	389.0	378.7	371.5	371.1	368.4	371.9	375.7	382.9	390.1	399.3
52.5°	373.0	362.0	353.2	347.5	346.0	346.0	350.2	357.0	363.5	373.0	381.4
55°	344.5	334.6	326.2	324.3	322.0	323.1	327.7	334.6	343.7	354.4	363.5
57.5°	315.1	306.8	300.7	298.0	296.9	300.7	306.0	313.2	325.0	335.7	345.6
60°	287.4	280.1	273.7	272.9	272.1	277.1	283.6	291.2	303.0	313.6	325.8
62.5°	257.7	252.0	247.8	246.6	246.6	251.6	258.8	268.7	279.8	291.2	304.1
65°	227.6	222.7	221.5	220.0	223.4	226.5	233.7	243.2	255.0	267.6	281.3
67.5°	199.8	196.8	194.5	194.5	197.2	202.9	209.3	218.9	231.0	244.4	256.5
70°	172.0	169.0	167.1	169.0	170.5	177.4	184.2	193.4	204.8	217.7	230.7
72.5°	143.1	143.5	143.9	143.5	145.0	151.5	158.3	167.1	178.1	190.7	202.5
75°	117.6	115.7	116.1	116.8	121.8	125.2	132.1	140.4	152.2	163.7	173.6
77.5°	91.3	90.6	92.5	92.5	97.1	101.2	107.0	115.3	125.6	135.9	143.9
80°	67.0	67.4	68.9	69.3	73.1	77.6	83.7	89.4	98.6	105.8	113.4
82.5°	45.3	46.1	48.0	50.6	52.1	54.8	60.1	66.2	72.7	80.3	84.9
85°	26.3	27.4	28.9	30.8	32.4	35.0	38.8	43.8	48.3	52.5	56.3
87.5°	12.9	12.9	14.1	14.8	16.0	17.5	20.2	22.1	25.1	28.2	29.7
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: P243510

CATALOG NUMBER: S124DRP-H795D930-X4F0-XX-UDD-A-W

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	932.5	932.5	932.5	932.5
2.5°	877.3	876.9	875.4	876.2
5°	827.8	824.0	823.7	822.1
7.5°	785.2	784.1	784.1	781.0
10°	752.5	749.0	749.8	748.3
12.5°	721.3	719.4	717.1	714.8
15°	686.2	686.2	686.2	679.8
17.5°	658.8	658.5	656.6	656.2
20°	630.3	628.8	623.8	627.3
22.5°	601.4	600.2	596.0	596.8
25°	574.3	573.2	572.4	569.4
27.5°	551.1	551.5	552.3	550.4
30°	533.6	532.5	534.0	532.1
32.5°	517.3	517.3	515.7	516.1
35°	498.6	500.1	500.5	500.1
37.5°	482.2	484.1	485.7	484.1
40°	467.0	468.5	470.1	469.7
42.5°	451.0	453.7	454.8	456.0
45°	435.8	439.2	441.1	441.5
47.5°	420.2	424.4	428.2	427.8
50°	405.0	410.3	413.7	413.3
52.5°	389.7	395.1	399.3	401.2
55°	372.6	379.5	383.3	386.7
57.5°	355.5	363.1	366.9	368.4
60°	336.5	343.3	348.3	349.4
62.5°	315.1	322.4	328.9	330.4
65°	293.1	301.1	306.0	306.8
67.5°	267.6	275.2	280.1	282.4
70°	241.3	247.0	252.3	255.8
72.5°	212.0	218.9	223.8	226.1
75°	181.6	189.2	191.8	193.4
77.5°	150.0	154.5	158.7	159.1
80°	118.4	124.1	125.6	129.4
82.5°	87.2	92.5	91.3	92.9
85°	57.5	59.4	60.5	60.9
87.5°	30.4	31.6	32.4	32.7
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P243510  
 CATALOG NUMBER: S124DRP-H795D930-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	17.92	19.49	18.28	19.80	20.12	18.20	19.78	18.57	20.09	20.40
	3H	19.36	20.77	19.73	21.10	21.46	19.59	21.01	19.97	21.33	21.69
	4H	19.88	21.21	20.28	21.56	21.93	20.07	21.40	20.47	21.75	22.13
	6H	20.22	21.45	20.63	21.82	22.21	20.39	21.62	20.80	21.99	22.38
	8H	20.32	21.49	20.74	21.88	22.28	20.47	21.65	20.90	22.04	22.44
	12H	20.37	21.49	20.80	21.88	22.31	20.52	21.64	20.95	22.02	22.45
4H	2H	19.05	20.38	19.45	20.73	21.11	18.99	20.32	19.39	20.67	21.05
	3H	20.56	21.67	20.97	22.06	22.47	20.70	21.81	21.11	22.21	22.61
	4H	21.13	22.13	21.56	22.54	22.98	21.29	22.29	21.72	22.71	23.15
	6H	21.54	22.42	22.00	22.86	23.31	21.70	22.57	22.15	23.01	23.47
	8H	21.66	22.48	22.12	22.92	23.39	21.80	22.62	22.26	23.06	23.53
	12H	21.73	22.46	22.21	22.94	23.41	21.87	22.60	22.35	23.08	23.55
8H	4H	21.56	22.37	22.02	22.82	23.28	21.63	22.45	22.09	22.89	23.36
	6H	22.05	22.73	22.55	23.22	23.70	22.16	22.84	22.66	23.33	23.81
	8H	22.22	22.82	22.73	23.33	23.82	22.33	22.94	22.84	23.44	23.93
	12H	22.33	22.87	22.84	23.36	23.92	22.44	22.98	22.95	23.47	24.04
12H	4H	21.60	22.33	22.08	22.81	23.28	21.67	22.40	22.15	22.88	23.35
	6H	22.12	22.73	22.63	23.24	23.72	22.23	22.84	22.74	23.34	23.83
	8H	22.33	22.87	22.84	23.36	23.92	22.45	22.99	22.96	23.48	24.04