

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: P243495

Luminaire Tested: S124DRP-H795D830-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P243495
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-H795D830-X4F0-XX-UDD-A-W
Description: DEFINE 4 DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

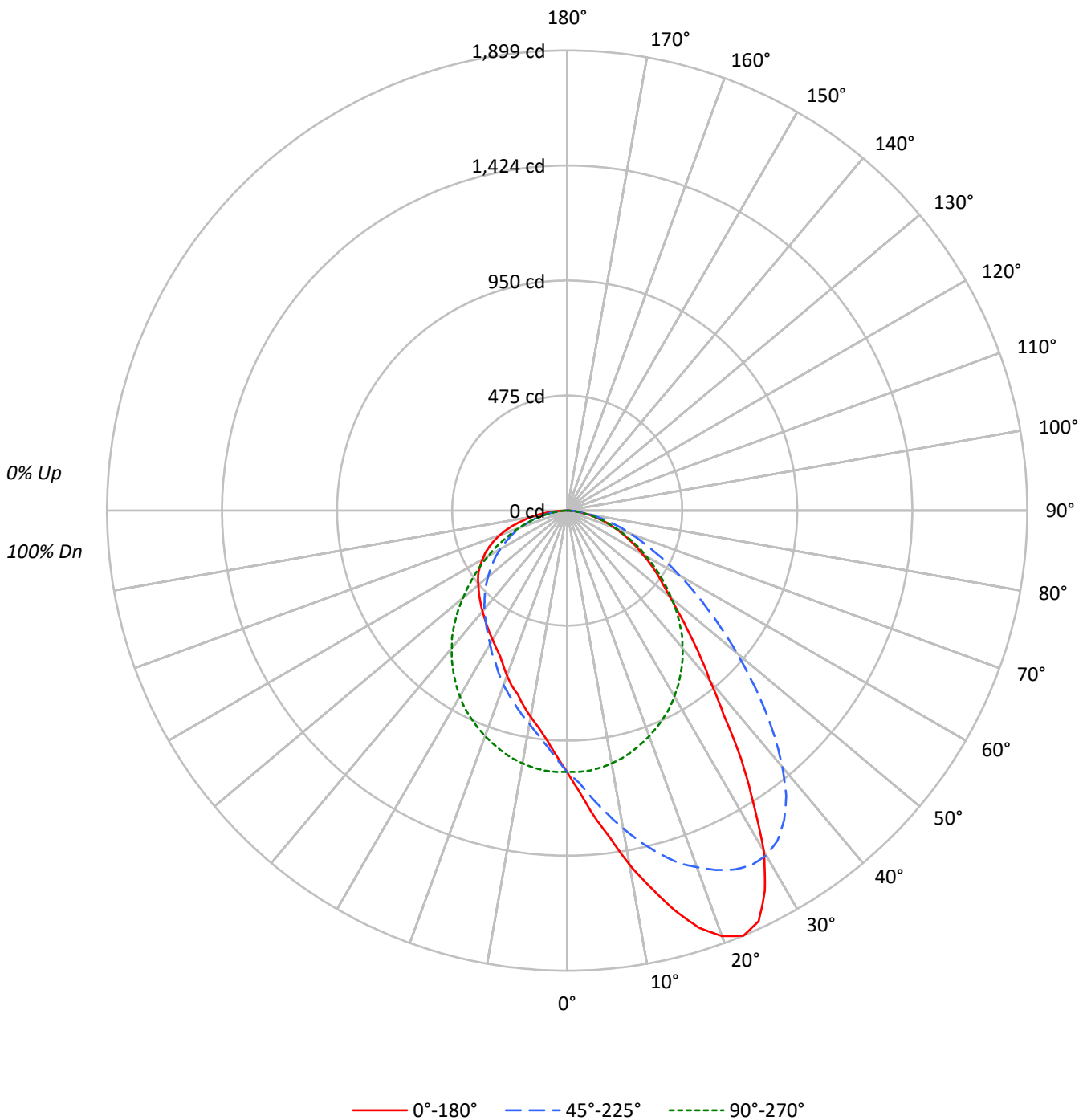
Lumens per Lamp: N/A
Luminaire Lumens: 3091.2 lumens
Efficiency: N/A
Efficacy: 131.0 lumens/watt
Spacing Criteria (0/90/45): 1.35 / 1.22 / 1.45
Luminous Opening: Rectangular (W 3.88' x L: 0.31' x H: 0')
CIE Type: Direct

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°	9582	9582	9582	9582	9582
5°	11276	10632	9607	8685	8480
10°	13400	12022	9564	8070	7808
15°	15695	13484	9479	7629	7232
20°	17673	14818	9370	7247	6859
25°	18342	16033	9244	6836	6456
30°	16656	16864	9087	6531	6313
35°	13589	16931	8872	6312	6274
40°	10641	16027	8593	6163	6301
45°	8905	14454	8248	6024	6416
50°	7643	12638	7765	5890	6609
55°	6983	10952	7242	5790	6929
60°	6398	9504	6704	5694	7180
65°	5868	8237	6135	5506	7460
70°	5398	7217	5536	5328	7685
75°	4805	6209	4867	4973	7676
80°	4008	5047	3988	4597	7658
85°	3049	3774	3009	4131	7180

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 50°
 Vertical Angle: 45°
 Luminance: 15106 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.9	3.4
10°-20°	325.0	10.5
20°-30°	522.1	16.9
30°-40°	596.8	19.3
40°-50°	549.4	17.8
50°-60°	449.4	14.5
60°-70°	320.3	10.4
70°-80°	176.0	5.7
80°-90°	47.3	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°	952.0	30.8
0°-40°	1548.9	50.1
0°-60°	2547.6	82.4
0°-90°	3091.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3091.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1078	1078	1078	1078	1078	
5°	1264	1192	1077	973	950	127
15°	1706	1465	1030	829	786	486
25°	1870	1635	942	697	658	839
35°	1252	1560	818	582	578	778
45°	708	1150	656	479	510	553
55°	451	707	467	374	447	404
65°	279	392	292	262	355	279
75°	140	181	142	145	224	149
85°	30	37	30	40	70	36
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°	1078.0	1078.0	1078.0	1078.0	1078.0	1078.0	1078.0	1078.0	1078.0	1078.0	1078.0
2.5°	1160.8	1157.2	1155.5	1153.3	1152.8	1150.6	1146.2	1140.1	1132.2	1123.8	1123.8
5°	1263.7	1262.8	1256.2	1256.7	1248.3	1239.1	1232.0	1223.2	1206.1	1191.6	1181.4
7.5°	1362.3	1371.5	1369.3	1362.3	1350.0	1336.8	1322.7	1310.4	1278.7	1261.1	1246.6
10°	1484.6	1488.1	1482.0	1471.9	1460.9	1435.3	1416.9	1396.2	1361.9	1331.9	1305.5
12.5°	1592.0	1600.3	1589.3	1579.7	1553.7	1534.8	1516.3	1474.9	1438.9	1401.0	1362.7
15°	1705.5	1696.7	1702.4	1678.7	1660.2	1642.1	1595.1	1552.8	1511.9	1465.3	1425.2
17.5°	1804.1	1804.1	1793.5	1778.1	1758.7	1724.9	1677.8	1631.1	1585.8	1524.7	1467.9
20°	1868.3	1873.2	1860.8	1844.6	1821.2	1786.0	1748.6	1698.0	1637.7	1566.5	1502.2
22.5°	1899.1	1900.0	1895.6	1882.0	1863.0	1833.1	1794.8	1745.5	1681.7	1605.2	1537.9
25°	1870.1	1874.9	1873.6	1872.7	1863.0	1845.9	1815.1	1769.3	1711.2	1634.7	1562.1
27.5°	1768.0	1779.9	1790.0	1794.4	1804.9	1805.8	1796.6	1768.9	1721.3	1649.2	1568.2
30°	1622.8	1616.6	1643.9	1657.5	1693.6	1715.2	1730.6	1728.8	1701.5	1643.0	1566.0
32.5°	1429.2	1445.9	1465.3	1497.4	1540.1	1590.2	1628.1	1656.2	1653.6	1615.3	1551.1
35°	1252.3	1252.3	1276.9	1316.5	1361.9	1422.1	1485.5	1537.9	1570.0	1560.3	1515.0
37.5°	1060.4	1072.3	1100.5	1131.3	1186.7	1244.8	1328.4	1397.9	1465.3	1485.5	1462.2
40°	917.0	922.3	952.2	978.2	1034.9	1095.2	1165.2	1254.0	1331.5	1381.2	1384.3
42.5°	810.5	810.1	822.4	845.7	891.5	945.2	1020.8	1108.0	1198.6	1269.0	1302.0
45°	708.4	707.5	720.3	744.1	776.6	824.2	889.7	976.8	1069.7	1149.8	1201.7
47.5°	622.2	630.1	635.8	654.3	681.1	721.6	778.0	847.5	936.8	1026.6	1096.5
50°	552.7	556.2	568.5	577.3	607.2	635.4	680.7	743.2	819.8	913.9	989.6
52.5°	497.2	499.4	506.9	518.3	535.5	560.1	596.2	653.9	722.9	804.8	883.1
55°	450.6	449.3	454.1	461.6	476.5	497.2	523.6	567.6	627.9	706.7	778.8
57.5°	404.8	404.8	409.2	414.5	422.9	440.0	466.0	500.7	549.1	619.1	682.9
60°	359.9	363.0	364.8	370.1	377.1	389.9	409.2	436.5	477.4	534.6	598.0
62.5°	320.3	320.3	323.4	325.2	334.4	343.7	357.7	381.1	413.2	464.2	513.5
65°	279.0	281.6	281.6	285.1	293.1	300.1	311.1	328.7	355.1	391.6	437.8
67.5°	243.8	243.8	246.0	247.7	252.1	257.0	266.7	280.3	302.7	331.8	373.6
70°	207.7	209.0	208.1	210.3	213.0	217.8	224.8	236.3	252.6	277.7	308.5
72.5°	175.1	173.4	174.2	176.4	177.8	180.8	185.2	194.0	207.2	227.5	249.9
75°	139.9	139.0	142.1	141.2	143.4	146.1	150.0	156.6	166.8	180.8	198.0
77.5°	109.1	107.8	109.1	110.0	110.9	113.1	116.2	120.1	127.2	136.4	151.8
80°	78.3	77.9	78.8	79.6	80.1	83.6	84.5	88.4	91.5	98.6	106.0
82.5°	51.9	52.8	53.2	54.1	53.7	55.4	56.3	59.0	61.6	65.1	70.8
85°	29.9	28.6	29.9	29.9	29.9	32.1	31.7	33.4	35.2	37.0	40.9
87.5°	10.6	10.6	11.0	11.4	11.4	12.8	12.3	13.2	15.0	15.0	16.3
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°	1078.0	1078.0	1078.0	1078.0	1078.0	1078.0	1078.0	1078.0	1078.0	1078.0	1078.0
2.5°	1121.2	1116.3	1112.8	1102.7	1096.5	1090.8	1085.5	1079.8	1073.6	1065.7	1060.9
5°	1170.9	1160.3	1144.9	1130.8	1115.0	1100.9	1089.5	1076.7	1062.6	1048.1	1035.4
7.5°	1225.9	1206.1	1182.3	1156.4	1131.7	1111.0	1089.5	1069.2	1049.4	1030.1	1012.0
10°	1280.9	1246.6	1215.3	1179.7	1147.1	1115.9	1087.7	1059.6	1034.9	1009.4	986.5
12.5°	1331.9	1290.6	1244.8	1200.4	1156.8	1116.3	1081.6	1047.2	1015.6	985.2	958.4
15°	1371.1	1319.2	1265.0	1212.2	1162.1	1119.8	1074.5	1030.1	997.1	960.1	930.6
17.5°	1416.0	1354.4	1300.7	1237.3	1174.8	1106.6	1058.7	1010.3	970.7	935.0	905.6
20°	1445.9	1378.1	1300.7	1229.0	1164.7	1103.6	1045.9	990.5	948.7	907.3	871.7
22.5°	1469.7	1399.7	1314.3	1239.5	1159.0	1085.1	1022.6	968.0	918.8	879.6	845.7
25°	1482.0	1396.6	1315.2	1224.6	1144.0	1073.2	1002.8	942.5	892.8	849.2	820.2
27.5°	1482.4	1394.9	1298.5	1208.7	1122.5	1045.9	976.4	917.0	861.1	819.3	784.6
30°	1480.2	1383.4	1281.8	1183.6	1097.8	1019.5	946.9	885.3	834.3	789.8	756.8
32.5°	1466.1	1367.6	1256.7	1153.7	1060.4	981.7	914.8	853.6	799.1	758.6	723.8
35°	1434.5	1332.8	1221.5	1115.4	1027.0	945.2	879.2	817.6	768.7	724.7	689.1
37.5°	1394.0	1298.9	1185.8	1075.0	979.5	902.0	840.0	781.9	730.9	690.4	654.7
40°	1342.9	1253.6	1142.3	1027.0	931.5	853.2	794.7	740.5	697.0	655.6	620.9
42.5°	1273.0	1204.3	1089.9	977.7	877.8	803.9	747.1	702.3	657.4	620.0	585.2
45°	1198.2	1135.7	1034.0	922.7	826.8	750.7	697.4	656.1	617.8	579.9	551.8
47.5°	1115.4	1064.4	970.2	861.6	766.9	699.6	647.3	610.3	575.1	546.1	517.9
50°	1016.9	990.0	902.0	803.5	711.5	642.4	599.3	561.5	535.5	507.3	480.9
52.5°	925.4	903.8	832.1	735.3	651.7	590.9	544.7	514.8	489.3	468.6	447.5
55°	825.9	814.9	754.2	670.6	594.9	534.2	494.6	467.3	447.1	427.7	412.3
57.5°	734.4	733.5	679.8	608.1	534.2	482.7	444.9	422.4	404.8	391.2	378.0
60°	640.7	648.1	604.1	538.6	480.1	431.7	397.3	377.1	365.2	352.5	341.5
62.5°	555.7	567.2	527.1	475.7	418.0	378.4	352.0	336.6	323.4	314.2	305.8
65°	474.3	488.9	456.3	410.1	366.1	328.7	306.3	291.7	281.6	276.3	270.6
67.5°	402.6	410.5	388.5	352.5	315.9	283.4	264.9	252.1	243.3	241.1	234.5
70°	330.9	340.1	324.7	291.7	263.6	239.8	223.1	213.0	207.7	204.6	200.2
72.5°	273.3	277.2	261.8	238.9	216.5	196.7	184.4	176.9	170.7	169.4	167.2
75°	213.8	219.6	207.2	189.6	171.2	157.1	147.8	141.7	138.6	136.4	136.4
77.5°	161.5	166.3	159.3	143.9	132.9	120.6	114.4	108.7	107.4	105.2	106.0
80°	114.8	117.0	113.1	102.5	92.8	86.2	81.0	77.9	77.4	75.7	77.4
82.5°	76.1	76.6	72.2	67.3	59.8	56.3	52.8	51.5	51.0	51.0	50.2
85°	42.2	43.1	40.0	37.0	34.3	31.2	30.4	29.5	28.6	29.9	30.8
87.5°	16.3	16.7	16.3	15.0	14.1	13.2	12.8	13.6	12.3	13.2	13.6
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°	1078.0	1078.0	1078.0	1078.0	1078.0	1078.0	1078.0	1078.0	1078.0	1078.0	1078.0
2.5°	1053.4	1049.9	1044.6	1035.8	1029.6	1023.0	1020.4	1021.3	1018.6	1015.1	1016.0
5°	1025.7	1015.6	1006.8	994.4	983.0	973.3	970.2	966.3	962.8	960.6	958.4
7.5°	996.2	982.1	968.9	956.6	943.4	931.1	926.2	922.7	921.0	914.8	912.2
10°	968.0	951.8	935.9	921.4	907.8	894.1	889.3	884.9	878.7	876.1	873.0
12.5°	938.1	921.8	904.7	887.1	873.4	862.4	854.1	851.0	844.8	842.2	840.4
15°	909.1	889.3	875.6	862.0	841.3	829.0	825.5	814.5	811.0	805.7	802.2
17.5°	880.0	861.6	841.3	825.5	812.7	797.3	789.0	784.1	777.5	772.7	766.1
20°	851.4	829.9	814.0	794.2	780.2	766.1	755.5	751.1	745.4	738.8	729.5
22.5°	823.7	800.0	784.6	766.1	748.5	732.2	723.4	717.2	705.8	704.5	696.1
25°	791.2	770.0	749.8	730.4	713.3	697.0	691.3	681.6	677.6	669.7	668.4
27.5°	760.3	737.9	715.9	694.8	679.8	668.4	658.3	652.1	648.1	642.0	642.4
30°	728.2	703.6	682.9	663.5	647.3	636.3	629.7	626.6	620.9	620.0	616.9
32.5°	693.9	671.5	649.9	632.7	616.0	606.3	603.3	600.2	596.7	597.1	596.2
35°	659.6	639.8	616.9	601.1	587.4	581.7	576.9	576.0	574.7	575.5	575.5
37.5°	626.1	604.6	585.7	571.1	563.2	555.3	553.1	552.7	553.1	554.0	556.2
40°	593.6	573.8	555.3	543.4	534.6	531.1	528.0	529.3	531.1	534.2	536.8
42.5°	561.0	542.1	526.7	514.8	506.5	504.7	505.1	507.8	508.2	512.6	517.5
45°	526.7	510.4	495.9	486.7	481.4	479.2	480.1	482.7	485.8	491.9	498.1
47.5°	495.0	480.5	467.7	458.5	454.5	453.7	455.4	458.9	466.0	472.1	479.2
50°	462.9	449.7	437.8	429.5	429.0	425.9	429.9	434.3	442.7	451.0	461.6
52.5°	431.2	418.5	408.3	401.7	400.0	400.0	404.8	412.7	420.2	431.2	440.9
55°	398.2	386.8	377.1	374.9	372.3	373.6	378.9	386.8	397.3	409.7	420.2
57.5°	364.3	354.7	347.6	344.5	343.2	347.6	353.8	362.1	375.8	388.1	399.5
60°	332.2	323.9	316.4	315.5	314.6	320.3	327.8	336.6	350.3	362.6	376.7
62.5°	297.9	291.3	286.5	285.1	285.1	290.9	299.2	310.7	323.4	336.6	351.6
65°	263.1	257.4	256.1	254.3	258.3	261.8	270.2	281.2	294.8	309.3	325.2
67.5°	231.0	227.5	224.8	224.8	227.9	234.5	242.0	253.0	267.1	282.5	296.6
70°	198.9	195.4	193.2	195.4	197.1	205.0	213.0	223.5	236.7	251.7	266.7
72.5°	165.4	165.9	166.3	165.9	167.6	175.1	183.0	193.2	205.9	220.4	234.1
75°	136.0	133.8	134.2	135.1	140.8	144.8	152.7	162.4	176.0	189.2	200.6
77.5°	105.6	104.7	106.9	106.9	112.2	117.0	123.6	133.3	145.2	157.1	166.3
80°	77.4	77.9	79.6	80.1	84.5	89.8	96.8	103.4	114.0	122.3	131.1
82.5°	52.4	53.2	55.4	58.5	60.3	63.4	69.5	76.6	84.0	92.8	98.1
85°	30.4	31.7	33.4	35.6	37.4	40.5	44.9	50.6	55.9	60.7	65.1
87.5°	15.0	15.0	16.3	17.2	18.5	20.2	23.3	25.5	29.0	32.6	34.3
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: P243495

CATALOG NUMBER: S124DRP-H795D830-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1078.0	1078.0	1078.0	1078.0
2.5°	1014.2	1013.8	1012.0	1012.9
5°	957.0	952.6	952.2	950.4
7.5°	907.8	906.4	906.4	902.9
10°	869.9	866.0	866.8	865.1
12.5°	833.8	831.6	829.0	826.4
15°	793.4	793.4	793.4	785.9
17.5°	761.7	761.2	759.0	758.6
20°	728.7	726.9	721.2	725.1
22.5°	695.2	693.9	689.1	689.9
25°	664.0	662.7	661.8	658.3
27.5°	637.1	637.6	638.5	636.3
30°	616.9	615.6	617.3	615.1
32.5°	598.0	598.0	596.2	596.7
35°	576.4	578.2	578.6	578.2
37.5°	557.5	559.7	561.5	559.7
40°	539.9	541.7	543.4	543.0
42.5°	521.4	524.5	525.8	527.1
45°	503.8	507.8	510.0	510.4
47.5°	485.8	490.6	495.0	494.6
50°	468.2	474.3	478.3	477.9
52.5°	450.6	456.7	461.6	463.8
55°	430.8	438.7	443.1	447.1
57.5°	411.0	419.8	424.2	425.9
60°	389.0	396.9	402.6	403.9
62.5°	364.3	372.7	380.2	381.9
65°	338.8	348.1	353.8	354.7
67.5°	309.3	318.1	323.9	326.5
70°	279.0	285.6	291.7	295.7
72.5°	245.1	253.0	258.7	261.4
75°	209.9	218.7	221.8	223.5
77.5°	173.4	178.6	183.5	183.9
80°	136.8	143.4	145.2	149.6
82.5°	100.8	106.9	105.6	107.4
85°	66.4	68.6	70.0	70.4
87.5°	35.2	36.5	37.4	37.8
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P243495
 CATALOG NUMBER: S124DRP-H795D830-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	18.42	19.99	18.79	20.31	20.62	18.71	20.28	19.07	20.59	20.91
	3H	19.86	21.28	20.24	21.60	21.97	20.09	21.51	20.47	21.84	22.20
	4H	20.38	21.71	20.78	22.06	22.44	20.58	21.91	20.98	22.26	22.63
	6H	20.73	21.96	21.14	22.32	22.72	20.89	22.12	21.30	22.49	22.88
	8H	20.82	22.00	21.25	22.39	22.79	20.98	22.15	21.40	22.54	22.94
	12H	20.87	22.00	21.30	22.38	22.81	21.02	22.15	21.45	22.53	22.96
4H	2H	19.56	20.89	19.96	21.24	21.61	19.50	20.83	19.90	21.18	21.55
	3H	21.06	22.17	21.47	22.57	22.97	21.20	22.31	21.61	22.71	23.11
	4H	21.63	22.63	22.06	23.05	23.49	21.80	22.80	22.23	23.21	23.65
	6H	22.05	22.92	22.50	23.36	23.82	22.20	23.07	22.65	23.51	23.97
	8H	22.16	22.98	22.62	23.42	23.89	22.30	23.12	22.77	23.56	24.03
	12H	22.24	22.97	22.72	23.44	23.92	22.37	23.10	22.85	23.58	24.05
8H	4H	22.06	22.88	22.52	23.32	23.79	22.14	22.95	22.60	23.40	23.86
	6H	22.56	23.23	23.05	23.72	24.20	22.67	23.35	23.16	23.84	24.31
	8H	22.72	23.33	23.23	23.84	24.32	22.83	23.44	23.34	23.95	24.43
	12H	22.84	23.37	23.34	23.87	24.43	22.95	23.48	23.46	23.98	24.54
12H	4H	22.10	22.83	22.58	23.31	23.78	22.17	22.90	22.65	23.38	23.85
	6H	22.62	23.23	23.13	23.74	24.23	22.73	23.34	23.24	23.85	24.33
	8H	22.84	23.37	23.34	23.87	24.43	22.95	23.49	23.46	23.98	24.54