

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: P242645

Luminaire Tested: S124DRP-S795D840-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P242645
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-S795D840-X4F0-XX-UDD-A-W
Description: DEFINE 4 DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

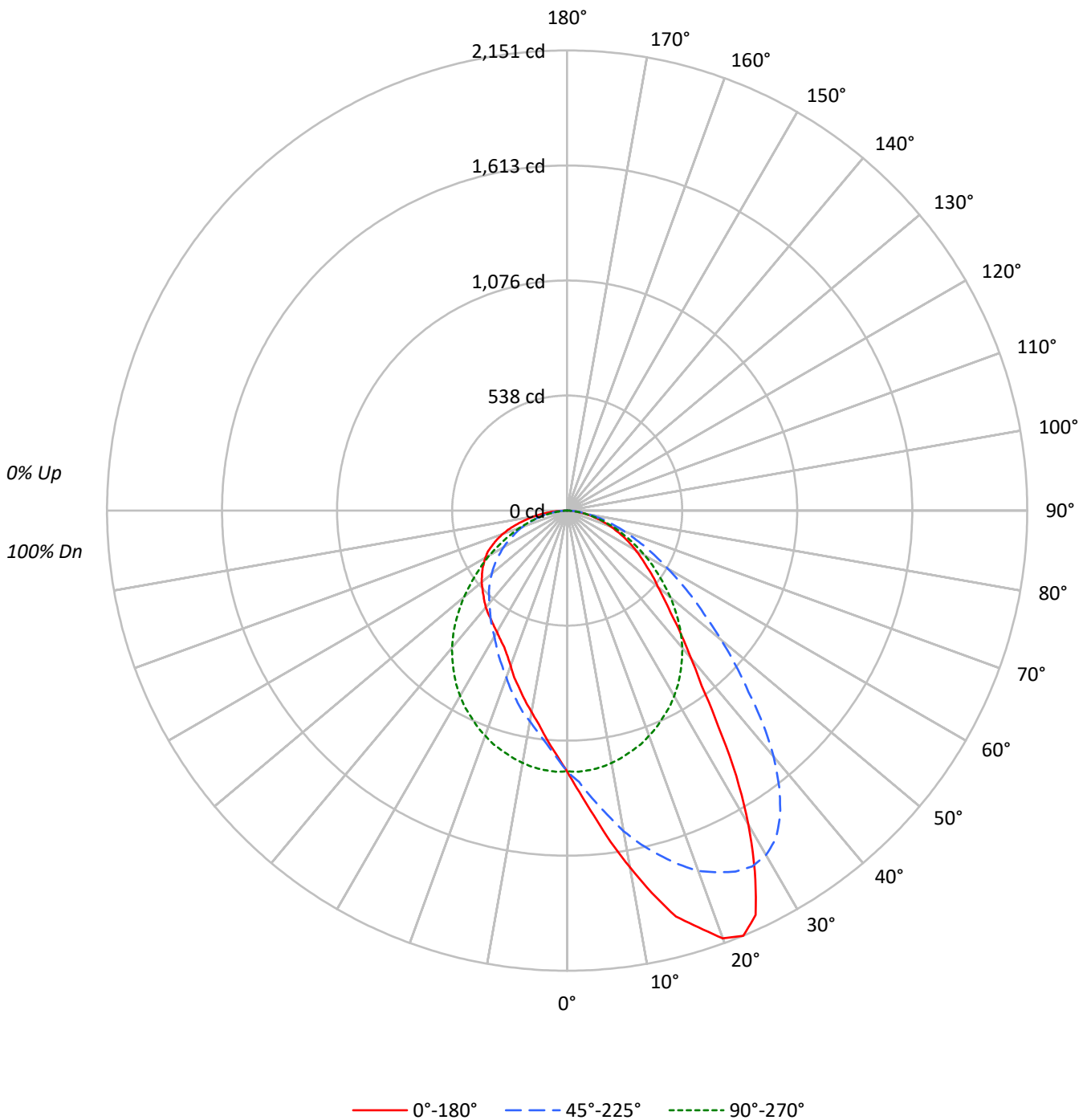
Lumens per Lamp: N/A
Luminaire Lumens: 3363.5 lumens
Efficiency: N/A
Efficacy: 127.4 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.22 / 1.41
Luminous Opening: Rectangular (W 3.88' x L: 0.31' x H: 0')
CIE Type: Direct

Input Watts (W): 26.4
Input Voltage (V): 120
Input Current (A_{in}): 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					85			
2	100	92	86	80	98	90	84	79	87	82	78	84	79	76	81	77	74	72					72			
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	62					62			
4	84	73	64	58	82	72	64	58	69	62	57	67	61	56	65	60	55	53					53			
5	78	65	57	50	76	64	56	50	62	55	50	60	54	49	58	53	49	46					46			
6	72	59	51	44	70	58	50	44	56	49	44	55	48	43	53	47	43	41					41			
7	67	54	45	39	65	53	45	39	52	44	39	50	44	39	49	43	38	36					36			
8	62	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	33					33			
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30					30			
10	55	42	34	29	54	41	34	29	40	34	29	39	33	29	39	33	29	27					27			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	10835	10835	10835	10835	10835
5°	12760	12052	10863	9763	9588
10°	15277	13732	10815	9033	8632
15°	18076	15339	10706	8439	7927
20°	20128	16956	10594	7852	7298
25°	20453	18259	10430	7394	6864
30°	17404	19083	10272	6981	6727
35°	13381	18843	10016	6756	6729
40°	10429	17414	9715	6568	6855
45°	8696	15069	9261	6487	6969
50°	7653	12995	8708	6368	7206
55°	7011	11183	8045	6252	7496
60°	6571	9676	7451	6096	7845
65°	6116	8453	6787	5893	8136
70°	5590	7467	6128	5736	8319
75°	4994	6433	5392	5358	8219
80°	4187	5221	4418	4883	7960
85°	3090	3967	3192	4528	7619

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 55°
 Vertical Angle: 45°
 Luminance: 16636 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.6	3.5
10°-20°	366.2	10.9
20°-30°	581.7	17.3
30°-40°	646.3	19.2
40°-50°	587.8	17.5
50°-60°	480.3	14.3
60°-70°	342.9	10.2
70°-80°	188.6	5.6
80°-90°	51.0	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°	1066.5	31.7
0°-40°	1712.8	50.9
0°-60°	2781.0	82.7
0°-90°	3363.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3363.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1219	1219	1219	1219	1219	
5°	1430	1351	1217	1094	1074	145
15°	1964	1667	1163	917	861	555
25°	2085	1862	1063	754	700	925
35°	1233	1736	923	623	620	781
45°	692	1199	737	516	554	544
55°	452	722	519	403	484	408
65°	291	402	323	280	387	288
75°	145	187	157	156	239	154
85°	30	39	31	44	75	37
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°	1218.9	1218.9	1218.9	1218.9	1218.9	1218.9	1218.9	1218.9	1218.9	1218.9	1218.9
2.5°	1316.9	1316.4	1311.3	1310.3	1306.8	1302.2	1301.2	1293.1	1277.0	1269.4	1267.4
5°	1430.0	1440.1	1426.9	1424.4	1422.9	1406.2	1397.7	1387.6	1364.3	1350.7	1340.1
7.5°	1562.3	1562.8	1557.2	1551.7	1542.1	1527.9	1508.7	1486.5	1459.8	1432.5	1413.3
10°	1692.5	1696.6	1690.0	1689.0	1663.3	1647.1	1614.8	1587.5	1556.2	1521.4	1489.6
12.5°	1829.9	1821.8	1819.3	1792.5	1793.0	1760.2	1721.3	1693.0	1640.5	1599.1	1554.2
15°	1964.2	1953.1	1946.0	1916.2	1901.6	1860.7	1820.8	1790.0	1726.9	1666.8	1621.3
17.5°	2042.0	2055.6	2037.4	2025.3	1985.4	1958.6	1918.8	1855.6	1808.7	1733.9	1681.9
20°	2127.8	2128.8	2119.7	2107.1	2077.3	2040.9	1996.5	1925.8	1866.7	1792.5	1713.8
22.5°	2151.0	2151.0	2148.5	2136.9	2116.2	2088.4	2043.5	1987.4	1912.7	1830.4	1751.6
25°	2085.4	2083.4	2087.9	2101.0	2092.5	2083.4	2057.6	2013.7	1947.0	1861.7	1776.9
27.5°	1899.6	1912.7	1940.0	1972.3	1995.5	2016.2	2014.7	1996.0	1948.5	1874.8	1784.4
30°	1695.6	1712.7	1731.9	1764.2	1826.9	1862.7	1902.1	1931.9	1915.2	1859.2	1776.4
32.5°	1471.4	1472.4	1503.2	1541.1	1597.1	1674.4	1742.5	1810.7	1840.0	1817.3	1751.6
35°	1233.1	1240.1	1270.9	1307.3	1377.5	1461.8	1555.7	1639.5	1708.7	1736.5	1701.1
37.5°	1033.1	1055.3	1078.5	1119.9	1184.1	1260.3	1361.3	1465.8	1567.3	1628.9	1635.5
40°	898.8	911.4	927.1	956.9	1009.4	1084.1	1167.9	1292.1	1401.7	1500.7	1533.0
42.5°	792.7	798.8	806.9	833.1	870.0	944.2	1019.0	1124.5	1234.6	1357.8	1417.4
45°	691.8	699.3	715.5	731.1	761.4	812.9	884.1	974.0	1084.6	1198.7	1298.7
47.5°	616.0	621.1	631.2	648.3	675.6	710.4	771.0	847.3	955.3	1065.9	1173.0
50°	553.4	557.4	565.0	580.2	599.9	630.2	677.6	747.8	828.1	939.7	1044.2
52.5°	503.9	504.9	510.0	519.1	533.7	558.0	594.8	649.9	723.1	819.5	923.5
55°	452.4	454.4	459.5	467.1	480.7	496.9	526.6	570.1	635.2	721.6	811.9
57.5°	410.0	412.0	416.1	419.1	431.2	444.8	469.1	500.4	551.4	628.1	710.4
60°	369.6	368.6	373.7	376.2	383.8	394.9	412.5	442.3	485.2	544.3	618.5
62.5°	330.2	328.7	332.8	336.3	339.8	348.9	362.5	384.3	417.1	469.1	530.7
65°	290.8	288.8	291.3	295.4	299.4	304.5	315.1	335.8	363.6	401.9	450.9
67.5°	250.4	253.0	253.0	255.5	258.0	265.1	272.7	288.8	308.5	339.8	383.2
70°	215.1	215.6	217.6	217.6	219.1	225.2	231.3	239.8	259.0	287.3	321.1
72.5°	179.8	182.3	180.8	182.8	183.8	187.3	191.4	199.4	215.1	234.3	261.6
75°	145.4	146.9	146.9	147.4	149.0	150.5	154.0	160.1	171.7	187.3	207.0
77.5°	112.1	112.1	113.1	115.1	115.1	117.6	120.7	125.2	131.8	143.4	156.0
80°	81.8	82.8	82.3	83.3	83.3	85.3	86.3	92.4	94.9	102.0	111.6
82.5°	54.5	55.5	55.5	57.1	58.1	58.1	59.6	61.1	63.6	69.7	72.2
85°	30.3	31.3	30.3	31.3	32.8	33.3	34.8	35.3	37.4	38.9	42.4
87.5°	11.1	12.6	12.6	13.1	14.1	14.6	15.1	14.6	16.7	17.2	19.2
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°	1218.9	1218.9	1218.9	1218.9	1218.9	1218.9	1218.9	1218.9	1218.9	1218.9	1218.9
2.5°	1267.9	1260.8	1255.8	1251.7	1240.6	1234.1	1229.0	1221.9	1213.9	1205.3	1194.7
5°	1329.5	1312.3	1299.7	1280.5	1262.3	1247.2	1231.5	1217.4	1200.2	1181.5	1167.9
7.5°	1392.6	1368.9	1337.1	1312.3	1282.5	1256.8	1234.1	1210.3	1185.1	1160.8	1138.1
10°	1452.2	1419.4	1383.0	1340.1	1299.7	1263.9	1230.5	1198.2	1166.9	1135.6	1108.8
12.5°	1516.3	1473.4	1415.3	1363.3	1316.9	1265.9	1224.0	1182.6	1143.2	1109.8	1077.5
15°	1572.4	1513.3	1451.2	1384.0	1324.4	1268.4	1213.4	1163.4	1121.0	1077.5	1047.2
17.5°	1607.7	1534.5	1467.8	1397.7	1329.0	1258.8	1201.7	1145.7	1093.2	1050.8	1012.9
20°	1642.6	1569.8	1481.5	1411.3	1325.5	1252.7	1184.1	1119.9	1064.4	1018.5	979.1
22.5°	1672.9	1586.0	1497.6	1399.7	1314.3	1236.1	1159.3	1094.7	1037.6	988.7	951.3
25°	1679.9	1583.5	1487.5	1395.6	1298.7	1207.3	1139.1	1063.4	1002.8	951.8	911.4
27.5°	1682.4	1580.4	1473.9	1373.9	1274.0	1190.6	1101.8	1035.6	973.0	919.0	880.6
30°	1676.9	1569.3	1452.7	1342.1	1241.6	1149.2	1074.5	1000.8	936.7	883.1	842.7
32.5°	1659.2	1546.1	1425.4	1306.8	1201.7	1111.9	1034.1	964.9	902.8	850.3	807.4
35°	1621.9	1511.3	1383.5	1261.8	1155.3	1063.9	994.2	923.0	860.4	810.4	769.5
37.5°	1571.9	1468.9	1339.1	1212.4	1109.8	1016.9	946.8	881.1	824.6	773.1	730.6
40°	1502.2	1414.3	1284.1	1161.4	1048.2	960.9	896.3	837.2	781.1	733.2	693.3
42.5°	1421.9	1348.2	1230.5	1098.7	990.7	902.8	840.2	788.7	736.7	693.3	653.4
45°	1323.4	1272.9	1159.8	1039.7	926.1	843.2	783.2	736.7	692.3	648.8	615.5
47.5°	1213.9	1185.6	1087.1	972.0	862.9	780.1	728.1	683.7	643.3	605.4	575.6
50°	1103.3	1091.2	1008.9	898.8	795.8	719.0	666.5	629.7	596.3	564.0	536.2
52.5°	994.2	996.7	924.5	826.1	732.7	659.4	607.4	573.6	545.8	521.1	496.9
55°	882.6	896.8	838.7	748.8	663.5	596.8	549.9	519.1	498.9	477.2	458.5
57.5°	780.1	803.9	753.4	671.1	598.9	535.2	493.8	470.1	447.9	433.7	419.1
60°	680.1	702.4	665.0	598.3	531.2	478.7	439.8	419.1	400.4	391.3	381.7
62.5°	591.3	610.5	585.2	524.6	468.6	418.6	387.3	367.6	356.5	346.4	340.8
65°	507.5	524.1	500.4	455.5	405.5	365.1	338.3	322.7	310.5	306.5	299.4
67.5°	424.7	439.8	427.2	387.8	345.4	313.6	292.4	275.7	268.6	264.6	260.0
70°	352.4	367.6	354.0	320.6	289.8	264.1	244.4	235.8	228.2	226.7	219.6
72.5°	291.3	300.4	286.8	262.6	237.3	216.6	202.5	193.4	190.4	187.3	184.3
75°	227.7	236.8	227.7	207.5	188.8	173.7	160.6	157.0	152.5	151.0	148.5
77.5°	170.7	179.3	172.2	158.5	143.9	131.3	123.7	118.7	118.2	115.1	116.1
80°	123.2	128.3	121.7	113.1	102.0	93.9	88.9	86.3	83.3	82.3	84.3
82.5°	79.8	81.3	78.8	73.7	66.1	61.6	58.6	55.5	55.5	56.0	55.5
85°	45.9	45.4	44.9	39.9	37.4	33.8	31.8	31.3	30.8	31.8	32.8
87.5°	19.2	19.7	19.2	17.2	15.7	14.1	13.6	13.1	13.6	14.1	14.6
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°	1218.9	1218.9	1218.9	1218.9	1218.9	1218.9	1218.9	1218.9	1218.9	1218.9	1218.9
2.5°	1189.6	1185.1	1178.5	1169.4	1161.9	1153.8	1151.8	1148.7	1154.8	1149.7	1148.2
5°	1156.3	1145.7	1132.1	1116.4	1107.3	1094.2	1091.7	1086.6	1081.6	1081.1	1076.0
7.5°	1121.5	1106.8	1089.7	1073.5	1059.4	1045.2	1036.1	1035.1	1027.0	1023.0	1018.0
10°	1088.1	1068.9	1048.2	1033.1	1015.9	1000.8	990.2	984.1	979.1	973.5	968.5
12.5°	1048.8	1028.0	1011.9	995.2	974.0	963.4	944.2	932.6	932.6	934.1	919.0
15°	1020.0	999.8	973.5	950.3	939.2	917.0	907.4	895.3	887.7	880.1	874.0
17.5°	984.6	959.9	939.7	913.4	892.7	876.1	862.9	856.4	844.3	833.1	825.6
20°	951.8	925.0	903.3	875.1	851.8	830.1	819.5	809.4	800.8	791.7	783.2
22.5°	918.5	890.2	862.4	835.2	814.0	790.7	780.6	766.0	757.9	753.9	745.3
25°	883.1	852.8	822.5	796.3	774.1	753.9	740.2	729.6	720.5	716.5	710.9
27.5°	844.8	815.0	786.2	755.9	730.1	715.5	704.4	695.8	690.2	684.2	681.7
30°	808.4	777.1	745.8	718.0	694.8	680.1	670.0	664.5	660.5	657.9	655.4
32.5°	771.5	740.7	707.4	682.7	662.5	649.9	642.8	637.2	635.7	635.2	634.7
35°	731.7	700.3	670.0	647.3	627.6	622.6	616.0	613.0	612.0	615.5	617.0
37.5°	693.3	664.0	635.7	613.0	599.9	591.8	589.3	588.8	592.3	595.3	598.9
40°	656.4	628.1	601.9	582.7	570.6	566.0	565.0	567.5	571.6	575.1	579.2
42.5°	620.6	592.8	569.6	551.9	544.3	540.3	541.3	543.8	549.9	554.4	561.0
45°	583.2	560.0	536.7	522.1	515.0	516.0	516.0	520.6	526.1	532.7	539.3
47.5°	548.4	524.6	504.9	492.3	488.8	487.3	489.8	495.8	503.4	511.0	520.1
50°	513.0	490.8	474.1	463.0	459.0	460.5	464.5	470.1	479.7	489.8	499.4
52.5°	477.2	457.5	442.3	432.2	429.7	432.7	436.8	446.4	454.4	465.6	477.7
55°	439.8	422.6	410.5	402.9	401.9	403.4	408.0	417.6	429.7	443.3	454.4
57.5°	402.9	388.3	376.7	371.1	371.6	372.6	379.7	391.3	403.4	418.1	432.2
60°	365.6	352.4	343.4	339.3	339.8	342.9	351.9	362.5	378.7	392.8	408.0
62.5°	330.2	319.1	310.5	307.0	306.0	313.6	322.1	333.3	349.4	365.6	382.2
65°	291.9	282.8	275.7	273.7	275.2	280.2	291.3	306.0	319.6	336.3	353.5
67.5°	254.5	246.9	241.9	242.9	244.4	251.5	261.1	273.7	288.8	306.0	323.7
70°	219.1	212.1	208.0	208.5	211.6	220.7	228.7	241.4	258.0	275.7	289.8
72.5°	182.8	178.7	175.2	177.7	180.8	186.3	196.9	209.5	223.7	239.8	255.0
75°	145.9	145.9	143.9	145.4	150.0	156.0	163.6	176.7	191.4	204.5	216.6
77.5°	114.6	113.1	114.1	115.6	118.7	126.2	134.8	144.4	156.0	169.7	179.8
80°	82.8	83.3	85.8	88.9	89.9	95.4	104.5	113.1	121.7	132.8	142.4
82.5°	57.1	57.6	58.6	62.6	63.6	69.7	74.7	83.3	90.9	97.5	105.0
85°	33.8	33.8	36.4	37.9	40.4	44.4	48.0	53.0	60.1	65.1	72.7
87.5°	16.2	16.2	18.2	19.2	20.7	23.2	24.2	29.8	31.8	34.3	38.9
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: P242645

CATALOG NUMBER: S124DRP-S795D840-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1218.9	1218.9	1218.9	1218.9
2.5°	1147.2	1146.2	1142.7	1142.2
5°	1073.0	1070.5	1068.9	1074.5
7.5°	1016.9	1014.9	1010.4	1008.9
10°	963.4	961.4	957.4	956.3
12.5°	911.9	907.4	907.4	908.9
15°	867.5	865.5	859.9	861.4
17.5°	822.0	820.0	812.4	820.0
20°	779.6	775.6	772.0	771.5
22.5°	739.2	735.7	736.2	732.2
25°	706.9	703.4	702.4	699.8
27.5°	680.7	678.6	676.6	677.6
30°	656.9	656.4	655.4	655.4
32.5°	637.2	637.2	638.2	638.2
35°	619.1	620.6	621.6	620.1
37.5°	602.9	603.9	605.4	606.9
40°	583.7	587.2	588.2	590.8
42.5°	565.5	569.6	572.6	572.6
45°	546.8	550.9	554.4	554.4
47.5°	527.7	533.2	536.7	537.3
50°	508.0	515.0	518.6	521.1
52.5°	488.8	495.8	500.9	501.9
55°	466.1	476.2	481.7	483.7
57.5°	445.9	454.9	461.0	462.5
60°	421.6	431.7	439.8	441.3
62.5°	396.9	407.5	414.6	419.1
65°	367.6	378.2	385.3	386.8
67.5°	336.8	347.9	352.4	355.5
70°	304.0	312.6	317.6	320.1
72.5°	266.6	275.7	281.8	281.8
75°	228.2	236.3	239.3	239.3
77.5°	188.3	192.9	196.9	197.9
80°	150.0	152.5	155.5	155.5
82.5°	110.6	112.6	115.6	115.1
85°	71.7	76.2	75.7	74.7
87.5°	40.4	40.9	42.4	43.4
90°	0.0	0.0	0.0	0.0

TEST NUMBER: P242645

CATALOG NUMBER: S124DRP-S795D840-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	18.25	19.81	18.61	20.12	20.44	19.16	20.72	19.52	21.03	21.35
	3H	19.73	21.13	20.11	21.46	21.82	20.52	21.93	20.90	22.26	22.62
	4H	20.27	21.59	20.67	21.94	22.31	21.00	22.32	21.39	22.67	23.04
	6H	20.63	21.85	21.04	22.22	22.61	21.30	22.53	21.71	22.89	23.28
	8H	20.73	21.89	21.15	22.28	22.68	21.38	22.55	21.81	22.94	23.34
	12H	20.78	21.90	21.21	22.28	22.71	21.42	22.54	21.85	22.92	23.35
4H	2H	19.41	20.73	19.81	21.08	21.45	19.84	21.16	20.24	21.51	21.89
	3H	20.94	22.04	21.35	22.44	22.84	21.55	22.65	21.96	23.05	23.45
	4H	21.52	22.52	21.96	22.93	23.37	22.14	23.13	22.57	23.55	23.99
	6H	21.95	22.82	22.41	23.26	23.72	22.54	23.40	22.99	23.85	24.30
	8H	22.07	22.88	22.54	23.33	23.79	22.64	23.45	23.10	23.90	24.36
	12H	22.15	22.88	22.63	23.35	23.82	22.71	23.43	23.19	23.91	24.38
8H	4H	21.98	22.79	22.44	23.23	23.70	22.45	23.26	22.92	23.71	24.17
	6H	22.48	23.16	22.98	23.65	24.12	22.98	23.65	23.48	24.14	24.62
	8H	22.66	23.26	23.17	23.77	24.25	23.15	23.75	23.66	24.26	24.74
	12H	22.78	23.31	23.29	23.80	24.37	23.26	23.79	23.77	24.28	24.85
12H	4H	22.03	22.75	22.51	23.23	23.70	22.49	23.21	22.97	23.69	24.16
	6H	22.56	23.16	23.07	23.67	24.16	23.04	23.64	23.55	24.15	24.64
	8H	22.78	23.31	23.29	23.80	24.37	23.26	23.79	23.77	24.28	24.85