

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: P242655

Luminaire Tested: S124DRP-S795D935-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P242655
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-S795D935-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

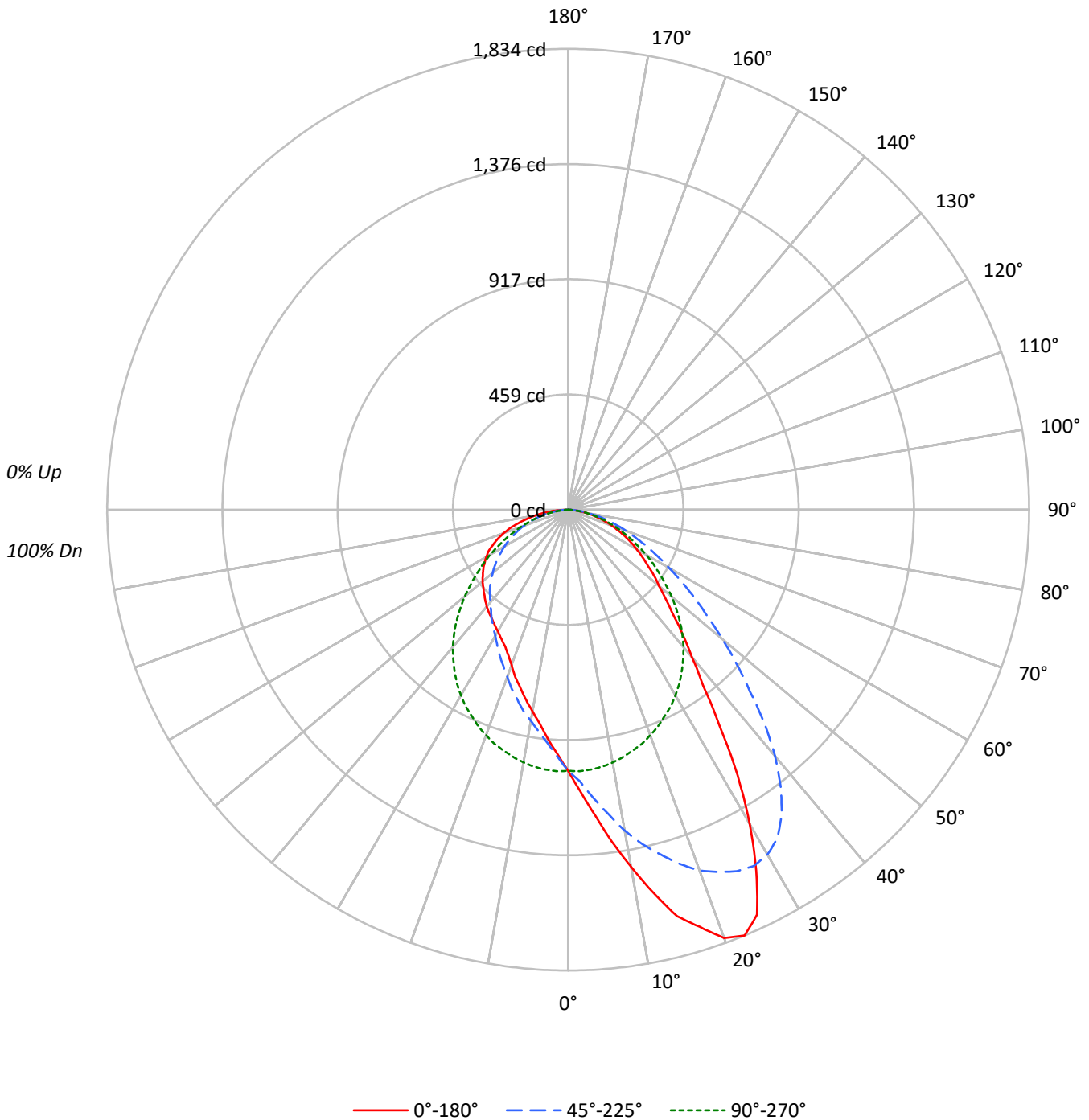
Lumens per Lamp: N/A
Luminaire Lumens: 2867.7 lumens
Efficiency: N/A
Efficacy: 108.6 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.22 / 1.41
Luminous Opening: Rectangular (W 3.88' x L: 0.31' x H: 0')
CIE Type: Direct

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°	9237	9237	9237	9237	9237
5°	10879	10276	9261	8324	8174
10°	13025	11708	9221	7702	7360
15°	15411	13078	9128	7194	6758
20°	17160	14457	9033	6694	6222
25°	17438	15568	8892	6303	5852
30°	14838	16270	8758	5952	5736
35°	11408	16065	8540	5760	5737
40°	8892	14847	8283	5600	5845
45°	7414	12847	7896	5531	5942
50°	6524	11080	7423	5429	6144
55°	5977	9534	6859	5331	6391
60°	5602	8251	6352	5196	6690
65°	5216	7208	5786	5025	6937
70°	4766	6367	5224	4889	7093
75°	4259	5485	4599	4568	7010
80°	3568	4453	3768	4167	6788
85°	2631	3376	2723	3865	6497

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 55°
 Vertical Angle: 45°
 Luminance: 14184 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.1	3.5
10°-20°	312.2	10.9
20°-30°	495.9	17.3
30°-40°	551.1	19.2
40°-50°	501.2	17.5
50°-60°	409.5	14.3
60°-70°	292.4	10.2
70°-80°	160.8	5.6
80°-90°	43.5	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°	909.3	31.7
0°-40°	1460.3	50.9
0°-60°	2371.0	82.7
0°-90°	2867.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2867.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1039	1039	1039	1039	1039	
5°	1219	1152	1038	933	916	123
15°	1675	1421	992	782	734	473
25°	1778	1587	907	643	597	789
35°	1051	1480	787	531	529	665
45°	590	1022	628	440	473	463
55°	386	615	443	344	412	348
65°	248	343	275	239	330	245
75°	124	160	134	133	204	132
85°	26	33	27	38	64	32
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°	1039.2	1039.2	1039.2	1039.2	1039.2	1039.2	1039.2	1039.2	1039.2	1039.2	1039.2
2.5°	1122.8	1122.3	1118.0	1117.2	1114.1	1110.3	1109.4	1102.5	1088.7	1082.3	1080.6
5°	1219.2	1227.8	1216.6	1214.4	1213.2	1198.9	1191.6	1183.0	1163.2	1151.6	1142.6
7.5°	1332.0	1332.4	1327.7	1322.9	1314.8	1302.7	1286.3	1267.4	1244.6	1221.3	1205.0
10°	1443.0	1446.5	1440.9	1440.0	1418.1	1404.3	1376.7	1353.5	1326.8	1297.1	1270.0
12.5°	1560.1	1553.3	1551.1	1528.3	1528.7	1500.7	1467.6	1443.5	1398.7	1363.4	1325.1
15°	1674.7	1665.2	1659.2	1633.8	1621.3	1586.4	1552.4	1526.1	1472.3	1421.1	1382.3
17.5°	1741.0	1752.6	1737.1	1726.7	1692.7	1669.9	1635.9	1582.1	1542.1	1478.3	1434.0
20°	1814.1	1815.0	1807.2	1796.5	1771.1	1740.1	1702.2	1641.9	1591.6	1528.3	1461.1
22.5°	1833.9	1833.9	1831.8	1821.9	1804.2	1780.6	1742.2	1694.5	1630.7	1560.6	1493.4
25°	1778.0	1776.3	1780.1	1791.3	1784.0	1776.3	1754.3	1716.8	1660.0	1587.3	1514.9
27.5°	1619.6	1630.7	1654.0	1681.5	1701.3	1719.0	1717.7	1701.8	1661.3	1598.5	1521.4
30°	1445.6	1460.3	1476.6	1504.2	1557.6	1588.1	1621.7	1647.1	1632.9	1585.1	1514.5
32.5°	1254.5	1255.3	1281.6	1313.9	1361.7	1427.5	1485.7	1543.8	1568.8	1549.4	1493.4
35°	1051.3	1057.3	1083.6	1114.6	1174.4	1246.3	1326.4	1397.8	1456.8	1480.5	1450.4
37.5°	880.8	899.8	919.6	954.9	1009.5	1074.5	1160.6	1249.7	1336.3	1388.8	1394.4
40°	766.3	777.1	790.4	815.8	860.6	924.3	995.8	1101.7	1195.1	1279.5	1307.0
42.5°	675.9	681.1	687.9	710.3	741.8	805.0	868.8	958.7	1052.6	1157.6	1208.4
45°	589.8	596.2	610.0	623.4	649.2	693.1	753.8	830.4	924.7	1022.0	1107.3
47.5°	525.2	529.5	538.1	552.8	576.0	605.7	657.4	722.4	814.5	908.8	1000.1
50°	471.8	475.3	481.7	494.6	511.4	537.3	577.7	637.6	706.0	801.2	890.3
52.5°	429.6	430.5	434.8	442.6	455.0	475.7	507.1	554.1	616.5	698.7	787.4
55°	385.7	387.5	391.8	398.2	409.8	423.6	449.0	486.0	541.6	615.2	692.2
57.5°	349.6	351.3	354.7	357.3	367.6	379.3	399.9	426.6	470.1	535.5	605.7
60°	315.1	314.3	318.6	320.7	327.2	336.7	351.7	377.1	413.7	464.1	527.4
62.5°	281.5	280.3	283.7	286.7	289.7	297.5	309.1	327.6	355.6	399.9	452.5
65°	248.0	246.2	248.4	251.8	255.3	259.6	268.6	286.3	310.0	342.7	384.4
67.5°	213.5	215.7	215.7	217.8	220.0	226.0	232.5	246.2	263.0	289.7	326.8
70°	183.4	183.8	185.5	185.5	186.8	192.0	197.2	204.5	220.8	245.0	273.8
72.5°	153.3	155.4	154.1	155.8	156.7	159.7	163.2	170.0	183.4	199.8	223.0
75°	124.0	125.3	125.3	125.7	127.0	128.3	131.3	136.5	146.4	159.7	176.5
77.5°	95.6	95.6	96.4	98.2	98.2	100.3	102.9	106.8	112.4	122.3	133.0
80°	69.7	70.6	70.2	71.0	71.0	72.8	73.6	78.8	80.9	87.0	95.1
82.5°	46.5	47.4	47.4	48.6	49.5	49.5	50.8	52.1	54.2	59.4	61.6
85°	25.8	26.7	25.8	26.7	28.0	28.4	29.7	30.1	31.9	33.1	36.2
87.5°	9.5	10.8	10.8	11.2	12.1	12.5	12.9	12.5	14.2	14.6	16.4
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°	1039.2	1039.2	1039.2	1039.2	1039.2	1039.2	1039.2	1039.2	1039.2	1039.2	1039.2
2.5°	1081.0	1075.0	1070.7	1067.2	1057.7	1052.1	1047.8	1041.8	1034.9	1027.6	1018.6
5°	1133.5	1118.9	1108.1	1091.8	1076.3	1063.3	1050.0	1037.9	1023.3	1007.4	995.8
7.5°	1187.3	1167.1	1140.0	1118.9	1093.5	1071.5	1052.1	1031.9	1010.4	989.7	970.4
10°	1238.1	1210.1	1179.1	1142.6	1108.1	1077.5	1049.1	1021.6	994.9	968.2	945.4
12.5°	1292.8	1256.2	1206.7	1162.4	1122.8	1079.3	1043.5	1008.2	974.7	946.2	918.7
15°	1340.6	1290.2	1237.3	1180.0	1129.2	1081.4	1034.5	991.9	955.7	918.7	892.9
17.5°	1370.7	1308.3	1251.5	1191.6	1133.1	1073.2	1024.6	976.8	932.0	895.9	863.6
20°	1400.4	1338.4	1263.1	1203.3	1130.1	1068.1	1009.5	954.9	907.5	868.3	834.7
22.5°	1426.3	1352.2	1276.9	1193.4	1120.6	1053.9	988.4	933.3	884.7	842.9	811.1
25°	1432.3	1350.1	1268.3	1189.9	1107.3	1029.3	971.2	906.6	855.0	811.5	777.1
27.5°	1434.4	1347.5	1256.6	1171.4	1086.2	1015.1	939.4	883.0	829.6	783.5	750.8
30°	1429.7	1338.0	1238.6	1144.3	1058.6	979.8	916.1	853.3	798.6	752.9	718.5
32.5°	1414.6	1318.2	1215.3	1114.1	1024.6	948.0	881.7	822.7	769.7	725.0	688.4
35°	1382.8	1288.5	1179.6	1075.8	985.0	907.1	847.7	787.0	733.6	691.0	656.1
37.5°	1340.2	1252.3	1141.7	1033.6	946.2	867.0	807.2	751.2	703.0	659.1	622.9
40°	1280.7	1205.8	1094.8	990.2	893.7	819.2	764.1	713.8	666.0	625.1	591.1
42.5°	1212.3	1149.4	1049.1	936.8	844.6	769.7	716.4	672.4	628.1	591.1	557.1
45°	1128.3	1085.3	988.9	886.4	789.5	718.9	667.7	628.1	590.2	553.2	524.8
47.5°	1034.9	1010.8	926.9	828.7	735.7	665.1	620.8	582.9	548.5	516.2	490.8
50°	940.6	930.3	860.1	766.3	678.5	613.0	568.3	536.8	508.4	480.9	457.2
52.5°	847.7	849.8	788.3	704.3	624.7	562.2	517.9	489.1	465.4	444.3	423.6
55°	752.5	764.6	715.1	638.4	565.7	508.9	468.8	442.6	425.3	406.8	390.9
57.5°	665.1	685.4	642.3	572.1	510.6	456.3	421.0	400.8	381.9	369.8	357.3
60°	579.9	598.8	567.0	510.1	452.9	408.1	375.0	357.3	341.4	333.6	325.5
62.5°	504.1	520.5	499.0	447.3	399.5	356.9	330.2	313.4	303.9	295.3	290.6
65°	432.7	446.9	426.6	388.3	345.7	311.3	288.4	275.1	264.8	261.3	255.3
67.5°	362.1	375.0	364.2	330.6	294.5	267.3	249.3	235.1	229.0	225.6	221.7
70°	300.5	313.4	301.8	273.4	247.1	225.2	208.4	201.0	194.6	193.3	187.3
72.5°	248.4	256.1	244.5	223.9	202.3	184.7	172.6	164.9	162.3	159.7	157.1
75°	194.2	201.9	194.2	176.9	161.0	148.1	136.9	133.9	130.0	128.7	126.6
77.5°	145.5	152.8	146.8	135.2	122.7	111.9	105.5	101.2	100.7	98.2	99.0
80°	105.0	109.3	103.8	96.4	87.0	80.1	75.8	73.6	71.0	70.2	71.9
82.5°	68.0	69.3	67.2	62.9	56.4	52.5	49.9	47.4	47.4	47.8	47.4
85°	39.2	38.7	38.3	34.0	31.9	28.8	27.1	26.7	26.3	27.1	28.0
87.5°	16.4	16.8	16.4	14.6	13.3	12.1	11.6	11.2	11.6	12.1	12.5
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°	1039.2	1039.2	1039.2	1039.2	1039.2	1039.2	1039.2	1039.2	1039.2	1039.2	1039.2
2.5°	1014.3	1010.4	1004.8	997.0	990.6	983.7	982.0	979.4	984.6	980.3	979.0
5°	985.9	976.8	965.2	951.8	944.1	932.9	930.7	926.4	922.1	921.7	917.4
7.5°	956.1	943.7	929.0	915.2	903.2	891.1	883.4	882.5	875.6	872.2	867.9
10°	927.7	911.4	893.7	880.8	866.2	853.3	844.2	839.0	834.7	830.0	825.7
12.5°	894.2	876.5	862.7	848.5	830.4	821.4	805.0	795.1	795.1	796.4	783.5
15°	869.6	852.4	830.0	810.2	800.7	781.8	773.6	763.3	756.8	750.4	745.2
17.5°	839.5	818.4	801.2	778.8	761.1	746.9	735.7	730.1	719.8	710.3	703.9
20°	811.5	788.7	770.2	746.1	726.3	707.7	698.7	690.1	682.8	675.0	667.7
22.5°	783.1	759.0	735.3	712.1	694.0	674.2	665.6	653.1	646.2	642.7	635.4
25°	752.9	727.1	701.3	678.9	660.0	642.7	631.1	622.1	614.3	610.9	606.1
27.5°	720.2	694.8	670.3	644.5	622.5	610.0	600.6	593.2	588.5	583.3	581.2
30°	689.2	662.5	635.9	612.2	592.4	579.9	571.3	566.5	563.1	560.9	558.8
32.5°	657.8	631.5	603.1	582.0	564.8	554.1	548.0	543.3	542.0	541.6	541.1
35°	623.8	597.1	571.3	551.9	535.1	530.8	525.2	522.6	521.8	524.8	526.1
37.5°	591.1	566.1	542.0	522.6	511.4	504.5	502.4	502.0	505.0	507.6	510.6
40°	559.7	535.5	513.2	496.8	486.5	482.6	481.7	483.9	487.3	490.3	493.8
42.5°	529.1	505.4	485.6	470.5	464.1	460.6	461.5	463.7	468.8	472.7	478.3
45°	497.2	477.4	457.6	445.1	439.1	440.0	440.0	443.8	448.6	454.2	459.8
47.5°	467.5	447.3	430.5	419.7	416.7	415.4	417.6	422.8	429.2	435.7	443.4
50°	437.4	418.4	404.2	394.8	391.3	392.6	396.1	400.8	409.0	417.6	425.8
52.5°	406.8	390.0	377.1	368.5	366.4	368.9	372.4	380.6	387.5	396.9	407.3
55°	375.0	360.3	350.0	343.5	342.7	344.0	347.8	356.0	366.4	378.0	387.5
57.5°	343.5	331.1	321.2	316.4	316.8	317.7	323.7	333.6	344.0	356.5	368.5
60°	311.7	300.5	292.7	289.3	289.7	292.3	300.1	309.1	322.9	334.9	347.8
62.5°	281.5	272.1	264.8	261.7	260.9	267.3	274.7	284.1	297.9	311.7	325.9
65°	248.8	241.1	235.1	233.3	234.6	238.9	248.4	260.9	272.5	286.7	301.4
67.5°	217.0	210.5	206.2	207.1	208.4	214.4	222.6	233.3	246.2	260.9	276.0
70°	186.8	180.8	177.4	177.8	180.4	188.1	195.0	205.8	220.0	235.1	247.1
72.5°	155.8	152.4	149.4	151.5	154.1	158.9	167.9	178.7	190.7	204.5	217.4
75°	124.4	124.4	122.7	124.0	127.9	133.0	139.5	150.7	163.2	174.4	184.7
77.5°	97.7	96.4	97.3	98.6	101.2	107.6	114.9	123.1	133.0	144.6	153.3
80°	70.6	71.0	73.2	75.8	76.6	81.4	89.1	96.4	103.8	113.2	121.4
82.5°	48.6	49.1	49.9	53.4	54.2	59.4	63.7	71.0	77.5	83.1	89.5
85°	28.8	28.8	31.0	32.3	34.4	37.9	40.9	45.2	51.2	55.5	62.0
87.5°	13.8	13.8	15.5	16.4	17.7	19.8	20.7	25.4	27.1	29.3	33.1
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: P242655

CATALOG NUMBER: S124DRP-S795D935-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1039.2	1039.2	1039.2	1039.2
2.5°	978.1	977.2	974.2	973.8
5°	914.8	912.7	911.4	916.1
7.5°	867.0	865.3	861.4	860.1
10°	821.4	819.7	816.2	815.4
12.5°	777.5	773.6	773.6	774.9
15°	739.6	737.9	733.1	734.4
17.5°	700.9	699.1	692.7	699.1
20°	664.7	661.3	658.2	657.8
22.5°	630.3	627.2	627.7	624.2
25°	602.7	599.7	598.8	596.7
27.5°	580.3	578.6	576.9	577.7
30°	560.1	559.7	558.8	558.8
32.5°	543.3	543.3	544.2	544.2
35°	527.8	529.1	529.9	528.7
37.5°	514.0	514.9	516.2	517.5
40°	497.7	500.7	501.5	503.7
42.5°	482.2	485.6	488.2	488.2
45°	466.2	469.7	472.7	472.7
47.5°	449.9	454.6	457.6	458.1
50°	433.1	439.1	442.1	444.3
52.5°	416.7	422.8	427.1	427.9
55°	397.4	406.0	410.7	412.4
57.5°	380.1	387.9	393.0	394.3
60°	359.5	368.1	375.0	376.3
62.5°	338.4	347.4	353.4	357.3
65°	313.4	322.4	328.5	329.8
67.5°	287.1	296.6	300.5	303.1
70°	259.2	266.5	270.8	272.9
72.5°	227.3	235.1	240.2	240.2
75°	194.6	201.5	204.1	204.1
77.5°	160.6	164.5	167.9	168.8
80°	127.9	130.0	132.6	132.6
82.5°	94.3	96.0	98.6	98.2
85°	61.1	65.0	64.6	63.7
87.5°	34.4	34.9	36.2	37.0
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P242655
 CATALOG NUMBER: S124DRP-S795D935-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	17.69	19.25	18.06	19.57	19.88	18.60	20.16	18.97	20.48	20.79
	3H	19.17	20.58	19.55	20.91	21.27	19.97	21.38	20.35	21.70	22.06
	4H	19.71	21.03	20.11	21.38	21.76	20.44	21.76	20.84	22.11	22.49
	6H	20.07	21.30	20.48	21.66	22.05	20.75	21.97	21.16	22.34	22.73
	8H	20.17	21.34	20.60	21.73	22.13	20.83	22.00	21.25	22.38	22.78
	12H	20.23	21.34	20.66	21.73	22.16	20.87	21.99	21.30	22.37	22.80
4H	2H	18.85	20.17	19.25	20.52	20.90	19.29	20.61	19.69	20.96	21.34
	3H	20.38	21.48	20.79	21.88	22.28	21.00	22.10	21.41	22.50	22.90
	4H	20.97	21.96	21.40	22.38	22.82	21.59	22.58	22.02	22.99	23.43
	6H	21.40	22.26	21.85	22.70	23.16	21.98	22.85	22.44	23.29	23.75
	8H	21.52	22.33	21.98	22.77	23.24	22.09	22.90	22.55	23.34	23.81
	12H	21.60	22.32	22.08	22.80	23.27	22.15	22.88	22.63	23.36	23.83
8H	4H	21.42	22.24	21.89	22.68	23.15	21.90	22.71	22.36	23.15	23.62
	6H	21.93	22.60	22.43	23.09	23.57	22.43	23.10	22.92	23.59	24.07
	8H	22.10	22.70	22.61	23.21	23.70	22.59	23.19	23.10	23.70	24.19
	12H	22.22	22.76	22.73	23.25	23.81	22.70	23.24	23.21	23.73	24.29
12H	4H	21.47	22.20	21.95	22.68	23.15	21.93	22.66	22.41	23.14	23.61
	6H	22.00	22.61	22.52	23.12	23.60	22.48	23.09	23.00	23.60	24.08
	8H	22.23	22.76	22.73	23.25	23.81	22.71	23.24	23.21	23.73	24.29