

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: P242650

Luminaire Tested: S124DRP-S795D930-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2024  
Report Number: P242650  
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-S795D930-X4F0-XX-UDD-A-W  
Description: DEFINE 4 DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER  
STANDARD LIGHT ENGINE  
Light Source: (92) 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

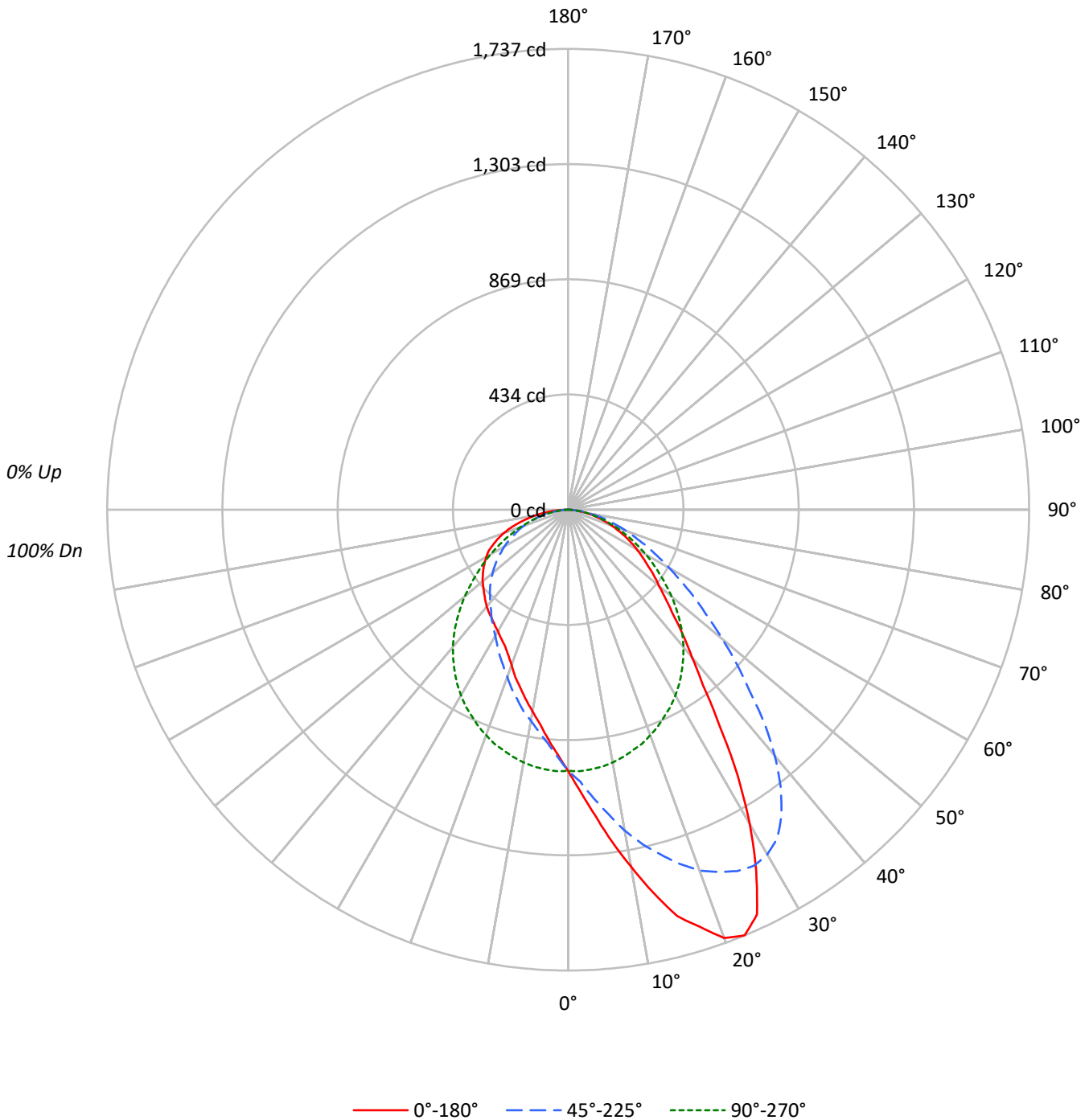
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2715.5 lumens  
Efficiency: N/A  
Efficacy: 102.9 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<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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CATALOG NUMBER: S124DRP-S795D930-X4F0-XX-UDD-A-W

### 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	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°	8748	8748	8748	8748	8748
5°	10301	9730	8769	7882	7741
10°	12333	11087	8732	7293	6969
15°	14593	12384	8643	6813	6400
20°	16249	13690	8553	6340	5892
25°	16512	14741	8420	5969	5541
30°	14050	15406	8293	5636	5431
35°	10803	15213	8086	5454	5432
40°	8420	14058	7843	5303	5535
45°	7021	12166	7477	5237	5627
50°	6179	10490	7029	5142	5818
55°	5661	9027	6495	5047	6052
60°	5305	7812	6016	4921	6334
65°	4939	6825	5479	4758	6569
70°	4514	6030	4948	4629	6718
75°	4032	5193	4355	4327	6635
80°	3378	4213	3568	3942	6429
85°	2499	3202	2580	3661	6150

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 55°  
 Vertical Angle: 45°  
 Luminance: 13432 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	95.8	3.5
10°-20°	295.6	10.9
20°-30°	469.6	17.3
30°-40°	521.8	19.2
40°-50°	474.6	17.5
50°-60°	387.8	14.3
60°-70°	276.8	10.2
70°-80°	152.3	5.6
80°-90°	41.2	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°	861.0	31.7
0°-40°	1382.8	50.9
0°-60°	2245.2	82.7
0°-90°	2715.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2715.5	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	984	984	984	984	984	
5°	1154	1090	983	883	868	117
15°	1586	1346	939	740	696	448
25°	1684	1503	858	609	565	747
35°	996	1402	745	503	501	630
45°	558	968	595	417	448	439
55°	365	582	419	326	390	330
65°	235	324	260	226	312	232
75°	117	151	127	126	193	125
85°	24	31	25	36	60	30
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°	984.1	984.1	984.1	984.1	984.1	984.1	984.1	984.1	984.1	984.1	984.1
2.5°	1063.2	1062.7	1058.7	1057.9	1055.0	1051.3	1050.5	1044.0	1031.0	1024.8	1023.2
5°	1154.5	1162.6	1152.0	1150.0	1148.8	1135.3	1128.4	1120.2	1101.5	1090.5	1081.9
7.5°	1261.3	1261.7	1257.2	1252.7	1245.0	1233.6	1218.1	1200.1	1178.5	1156.5	1141.0
10°	1366.4	1369.7	1364.4	1363.6	1342.8	1329.8	1303.7	1281.7	1256.4	1228.3	1202.6
12.5°	1477.3	1470.8	1468.8	1447.2	1447.6	1421.1	1389.7	1366.9	1324.5	1291.0	1254.8
15°	1585.8	1576.8	1571.1	1547.0	1535.2	1502.2	1470.0	1445.1	1394.2	1345.7	1309.0
17.5°	1648.5	1659.6	1644.9	1635.1	1602.9	1581.3	1549.1	1498.1	1460.2	1399.9	1357.9
20°	1717.8	1718.7	1711.3	1701.1	1677.1	1647.7	1611.9	1554.8	1507.1	1447.2	1383.6
22.5°	1736.6	1736.6	1734.6	1725.2	1708.5	1686.0	1649.8	1604.5	1544.2	1477.7	1414.1
25°	1683.6	1682.0	1685.6	1696.2	1689.3	1682.0	1661.2	1625.7	1571.9	1503.0	1434.5
27.5°	1533.6	1544.2	1566.2	1592.3	1611.0	1627.8	1626.5	1611.4	1573.1	1513.6	1440.6
30°	1368.9	1382.8	1398.2	1424.3	1474.9	1503.8	1535.6	1559.7	1546.2	1501.0	1434.1
32.5°	1187.9	1188.7	1213.6	1244.2	1289.4	1351.8	1406.8	1461.8	1485.5	1467.1	1414.1
35°	995.5	1001.2	1026.1	1055.4	1112.1	1180.2	1256.0	1323.6	1379.5	1401.9	1373.4
37.5°	834.1	852.0	870.7	904.2	955.9	1017.5	1099.0	1183.4	1265.4	1315.1	1320.4
40°	725.6	735.8	748.4	772.5	814.9	875.2	942.9	1043.2	1131.6	1211.5	1237.6
42.5°	640.0	644.9	651.4	672.6	702.4	762.3	822.6	907.8	996.7	1096.2	1144.3
45°	558.5	564.6	577.6	590.3	614.7	656.3	713.8	786.4	875.6	967.8	1048.5
47.5°	497.3	501.4	509.6	523.4	545.4	573.6	622.5	684.0	771.3	860.6	947.0
50°	446.8	450.0	456.2	468.4	484.3	508.7	547.1	603.7	668.5	758.6	843.0
52.5°	406.8	407.7	411.7	419.1	430.9	450.5	480.2	524.6	583.8	661.6	745.6
55°	365.3	366.9	371.0	377.1	388.1	401.1	425.2	460.2	512.8	582.5	655.5
57.5°	331.0	332.6	335.9	338.4	348.1	359.1	378.7	404.0	445.2	507.1	573.6
60°	298.4	297.6	301.7	303.7	309.8	318.8	333.1	357.1	391.8	439.4	499.4
62.5°	266.6	265.4	268.6	271.5	274.3	281.7	292.7	310.2	336.7	378.7	428.4
65°	234.8	233.2	235.2	238.5	241.7	245.8	254.4	271.1	293.5	324.5	364.0
67.5°	202.2	204.2	204.2	206.3	208.3	214.0	220.1	233.2	249.1	274.3	309.4
70°	173.7	174.1	175.7	175.7	176.9	181.8	186.7	193.6	209.1	232.0	259.3
72.5°	145.1	147.2	145.9	147.6	148.4	151.2	154.5	161.0	173.7	189.2	211.2
75°	117.4	118.6	118.6	119.0	120.3	121.5	124.3	129.2	138.6	151.2	167.1
77.5°	90.5	90.5	91.3	92.9	92.9	95.0	97.4	101.1	106.4	115.8	126.0
80°	66.0	66.9	66.4	67.3	67.3	68.9	69.7	74.6	76.6	82.3	90.1
82.5°	44.0	44.8	44.8	46.1	46.9	46.9	48.1	49.3	51.4	56.3	58.3
85°	24.5	25.3	24.5	25.3	26.5	26.9	28.1	28.5	30.2	31.4	34.2
87.5°	9.0	10.2	10.2	10.6	11.4	11.8	12.2	11.8	13.5	13.9	15.5
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):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	984.1	984.1	984.1	984.1	984.1	984.1	984.1	984.1	984.1	984.1	984.1
2.5°	1023.6	1017.9	1013.8	1010.6	1001.6	996.3	992.2	986.5	980.0	973.1	964.5
5°	1073.3	1059.5	1049.3	1033.8	1019.1	1006.9	994.3	982.8	969.0	953.9	942.9
7.5°	1124.3	1105.1	1079.5	1059.5	1035.4	1014.6	996.3	977.1	956.8	937.2	918.8
10°	1172.4	1145.9	1116.6	1081.9	1049.3	1020.4	993.4	967.4	942.1	916.8	895.2
12.5°	1224.2	1189.5	1142.6	1100.7	1063.2	1022.0	988.1	954.7	922.9	896.0	869.9
15°	1269.4	1221.7	1171.6	1117.4	1069.3	1024.0	979.6	939.2	905.0	869.9	845.5
17.5°	1298.0	1238.9	1185.0	1128.4	1072.9	1016.3	970.2	925.0	882.6	848.3	817.8
20°	1326.1	1267.4	1196.1	1139.4	1070.1	1011.4	955.9	904.2	859.3	822.2	790.4
22.5°	1350.6	1280.4	1209.1	1130.0	1061.1	997.9	936.0	883.8	837.7	798.2	768.0
25°	1356.3	1278.4	1200.9	1126.8	1048.5	974.7	919.7	858.5	809.6	768.4	735.8
27.5°	1358.3	1276.0	1189.9	1109.2	1028.5	961.2	889.5	836.1	785.5	741.9	710.9
30°	1353.8	1267.0	1172.8	1083.5	1002.4	927.8	867.5	808.0	756.2	713.0	680.4
32.5°	1339.5	1248.2	1150.8	1055.0	970.2	897.6	834.9	779.0	728.9	686.5	651.8
35°	1309.4	1220.1	1117.0	1018.7	932.7	858.9	802.7	745.2	694.6	654.3	621.3
37.5°	1269.0	1185.9	1081.1	978.8	896.0	821.0	764.3	711.4	665.7	624.1	589.9
40°	1212.8	1141.8	1036.7	937.6	846.3	775.8	723.6	675.9	630.6	591.9	559.7
42.5°	1147.9	1088.4	993.4	887.1	799.8	728.9	678.3	636.8	594.8	559.7	527.5
45°	1068.5	1027.7	936.4	839.4	747.6	680.8	632.3	594.8	558.9	523.8	496.9
47.5°	980.0	957.2	877.7	784.7	696.7	629.8	587.8	552.0	519.3	488.8	464.7
50°	890.7	880.9	814.5	725.6	642.5	580.5	538.1	508.3	481.4	455.3	432.9
52.5°	802.7	804.7	746.4	666.9	591.5	532.4	490.4	463.1	440.7	420.7	401.1
55°	712.6	724.0	677.1	604.5	535.7	481.8	443.9	419.1	402.8	385.2	370.1
57.5°	629.8	649.0	608.2	541.8	483.5	432.1	398.7	379.5	361.6	350.2	338.4
60°	549.1	567.0	536.9	483.1	428.9	386.5	355.1	338.4	323.3	315.9	308.2
62.5°	477.4	492.9	472.5	423.6	378.3	337.9	312.7	296.8	287.8	279.6	275.2
65°	409.7	423.1	404.0	367.7	327.3	294.7	273.1	260.5	250.7	247.4	241.7
67.5°	342.8	355.1	344.9	313.1	278.8	253.2	236.0	222.6	216.9	213.6	209.9
70°	284.5	296.8	285.8	258.9	234.0	213.2	197.3	190.4	184.3	183.0	177.3
72.5°	235.2	242.6	231.5	212.0	191.6	174.9	163.5	156.1	153.7	151.2	148.8
75°	183.9	191.2	183.9	167.5	152.5	140.2	129.6	126.8	123.1	121.9	119.8
77.5°	137.8	144.7	139.0	128.0	116.2	106.0	99.9	95.8	95.4	92.9	93.8
80°	99.5	103.5	98.2	91.3	82.3	75.8	71.7	69.7	67.3	66.4	68.1
82.5°	64.4	65.6	63.6	59.5	53.4	49.7	47.3	44.8	44.8	45.2	44.8
85°	37.1	36.7	36.3	32.2	30.2	27.3	25.7	25.3	24.9	25.7	26.5
87.5°	15.5	15.9	15.5	13.9	12.6	11.4	11.0	10.6	11.0	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°	984.1	984.1	984.1	984.1	984.1	984.1	984.1	984.1	984.1	984.1	984.1
2.5°	960.4	956.8	951.5	944.1	938.0	931.5	929.9	927.4	932.3	928.2	927.0
5°	933.5	925.0	914.0	901.3	894.0	883.4	881.3	877.3	873.2	872.8	868.7
7.5°	905.4	893.6	879.7	866.7	855.3	843.8	836.5	835.7	829.2	825.9	821.8
10°	878.5	863.0	846.3	834.1	820.2	808.0	799.4	794.5	790.4	786.0	781.9
12.5°	846.7	830.0	816.9	803.5	786.4	777.8	762.3	752.9	752.9	754.2	741.9
15°	823.5	807.2	786.0	767.2	758.2	740.3	732.6	722.8	716.7	710.5	705.6
17.5°	794.9	774.9	758.6	737.4	720.7	707.3	696.7	691.4	681.6	672.6	666.5
20°	768.4	746.8	729.3	706.5	687.7	670.2	661.6	653.5	646.5	639.2	632.3
22.5°	741.5	718.7	696.3	674.3	657.1	638.4	630.2	618.4	611.9	608.6	601.7
25°	713.0	688.5	664.1	642.9	624.9	608.6	597.6	589.1	581.7	578.5	574.0
27.5°	682.0	658.0	634.7	610.3	589.5	577.6	568.7	561.7	557.3	552.4	550.3
30°	652.7	627.4	602.1	579.7	560.9	549.1	541.0	536.5	533.2	531.2	529.1
32.5°	622.9	598.0	571.1	551.1	534.8	524.6	518.9	514.5	513.2	512.8	512.4
35°	590.7	565.4	541.0	522.6	506.7	502.6	497.3	494.9	494.1	496.9	498.2
37.5°	559.7	536.1	513.2	494.9	484.3	477.8	475.7	475.3	478.2	480.6	483.5
40°	529.9	507.1	485.9	470.4	460.6	457.0	456.2	458.2	461.5	464.3	467.6
42.5°	501.0	478.6	459.8	445.6	439.4	436.2	437.0	439.0	443.9	447.6	452.9
45°	470.8	452.1	433.3	421.5	415.8	416.6	416.6	420.3	424.8	430.1	435.4
47.5°	442.7	423.6	407.7	397.5	394.6	393.4	395.4	400.3	406.4	412.5	419.9
50°	414.2	396.2	382.8	373.8	370.6	371.8	375.0	379.5	387.3	395.4	403.2
52.5°	385.2	369.3	357.1	349.0	346.9	349.4	352.6	360.4	366.9	375.9	385.6
55°	355.1	341.2	331.4	325.3	324.5	325.7	329.4	337.1	346.9	357.9	366.9
57.5°	325.3	313.5	304.1	299.6	300.0	300.8	306.6	315.9	325.7	337.5	349.0
60°	295.1	284.5	277.2	273.9	274.3	276.8	284.1	292.7	305.7	317.2	329.4
62.5°	266.6	257.6	250.7	247.9	247.0	253.2	260.1	269.1	282.1	295.1	308.6
65°	235.6	228.3	222.6	220.9	222.2	226.2	235.2	247.0	258.0	271.5	285.4
67.5°	205.5	199.3	195.3	196.1	197.3	203.0	210.8	220.9	233.2	247.0	261.3
70°	176.9	171.2	168.0	168.4	170.8	178.1	184.7	194.9	208.3	222.6	234.0
72.5°	147.6	144.3	141.5	143.5	145.9	150.4	159.0	169.2	180.6	193.6	205.9
75°	117.8	117.8	116.2	117.4	121.1	126.0	132.1	142.7	154.5	165.1	174.9
77.5°	92.5	91.3	92.1	93.4	95.8	101.9	108.8	116.6	126.0	137.0	145.1
80°	66.9	67.3	69.3	71.7	72.6	77.0	84.4	91.3	98.2	107.2	115.0
82.5°	46.1	46.5	47.3	50.5	51.4	56.3	60.3	67.3	73.4	78.7	84.8
85°	27.3	27.3	29.4	30.6	32.6	35.9	38.7	42.8	48.5	52.6	58.7
87.5°	13.0	13.0	14.7	15.5	16.7	18.8	19.6	24.1	25.7	27.7	31.4
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: P242650

CATALOG NUMBER: S124DRP-S795D930-X4F0-XX-UDD-A-W

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	984.1	984.1	984.1	984.1
2.5°	926.2	925.4	922.5	922.1
5°	866.3	864.2	863.0	867.5
7.5°	821.0	819.4	815.7	814.5
10°	777.8	776.2	772.9	772.1
12.5°	736.2	732.6	732.6	733.8
15°	700.3	698.7	694.2	695.5
17.5°	663.7	662.0	655.9	662.0
20°	629.4	626.2	623.3	622.9
22.5°	596.8	593.9	594.4	591.1
25°	570.7	567.9	567.0	565.0
27.5°	549.5	547.9	546.3	547.1
30°	530.4	529.9	529.1	529.1
32.5°	514.5	514.5	515.3	515.3
35°	499.8	501.0	501.8	500.6
37.5°	486.7	487.6	488.8	490.0
40°	471.2	474.1	474.9	477.0
42.5°	456.6	459.8	462.3	462.3
45°	441.5	444.7	447.6	447.6
47.5°	426.0	430.5	433.3	433.7
50°	410.1	415.8	418.7	420.7
52.5°	394.6	400.3	404.4	405.2
55°	376.3	384.4	388.9	390.5
57.5°	360.0	367.3	372.2	373.4
60°	340.4	348.5	355.1	356.3
62.5°	320.4	329.0	334.7	338.4
65°	296.8	305.3	311.0	312.3
67.5°	271.9	280.9	284.5	287.0
70°	245.4	252.3	256.4	258.5
72.5°	215.2	222.6	227.5	227.5
75°	184.3	190.8	193.2	193.2
77.5°	152.1	155.7	159.0	159.8
80°	121.1	123.1	125.6	125.6
82.5°	89.3	90.9	93.4	92.9
85°	57.9	61.6	61.1	60.3
87.5°	32.6	33.0	34.2	35.1
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P242650  
 CATALOG NUMBER: S124DRP-S795D930-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	17.50	19.06	17.87	19.38	19.69	18.41	19.98	18.78	20.29	20.60
	3H	18.98	20.39	19.36	20.72	21.08	19.78	21.19	20.16	21.51	21.87
	4H	19.52	20.85	19.92	21.19	21.57	20.25	21.57	20.65	21.92	22.30
	6H	19.88	21.11	20.29	21.47	21.86	20.56	21.78	20.97	22.15	22.54
	8H	19.98	21.15	20.41	21.54	21.94	20.64	21.80	21.06	22.19	22.59
	12H	20.04	21.15	20.47	21.54	21.97	20.68	21.80	21.11	22.18	22.61
4H	2H	18.66	19.98	19.06	20.33	20.71	19.10	20.42	19.50	20.77	21.15
	3H	20.19	21.29	20.60	21.69	22.09	20.81	21.91	21.22	22.31	22.71
	4H	20.78	21.77	21.21	22.19	22.63	21.40	22.39	21.83	22.81	23.24
	6H	21.21	22.07	21.66	22.52	22.97	21.79	22.66	22.25	23.10	23.56
	8H	21.33	22.14	21.79	22.58	23.05	21.90	22.71	22.36	23.15	23.62
	12H	21.41	22.13	21.89	22.61	23.08	21.96	22.69	22.44	23.17	23.64
8H	4H	21.23	22.05	21.70	22.49	22.96	21.71	22.52	22.17	22.96	23.43
	6H	21.74	22.41	22.24	22.90	23.38	22.24	22.91	22.73	23.40	23.88
	8H	21.91	22.52	22.42	23.02	23.51	22.40	23.00	22.91	23.51	24.00
	12H	22.03	22.57	22.54	23.06	23.62	22.51	23.05	23.02	23.54	24.10
12H	4H	21.28	22.01	21.77	22.49	22.96	21.74	22.47	22.22	22.95	23.42
	6H	21.81	22.42	22.33	22.93	23.41	22.29	22.90	22.81	23.41	23.89
	8H	22.04	22.57	22.54	23.06	23.62	22.52	23.05	23.02	23.54	24.10