

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: P243490

Luminaire Tested: S124DRP-H795D927-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2024  
Report Number: P243490  
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-H795D927-X4F0-XX-UDD-A-W  
Description: DEFINE 4 DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER.  
HIGH PERFORMANCE LIGHT ENGINE  
Light Source: (184) 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

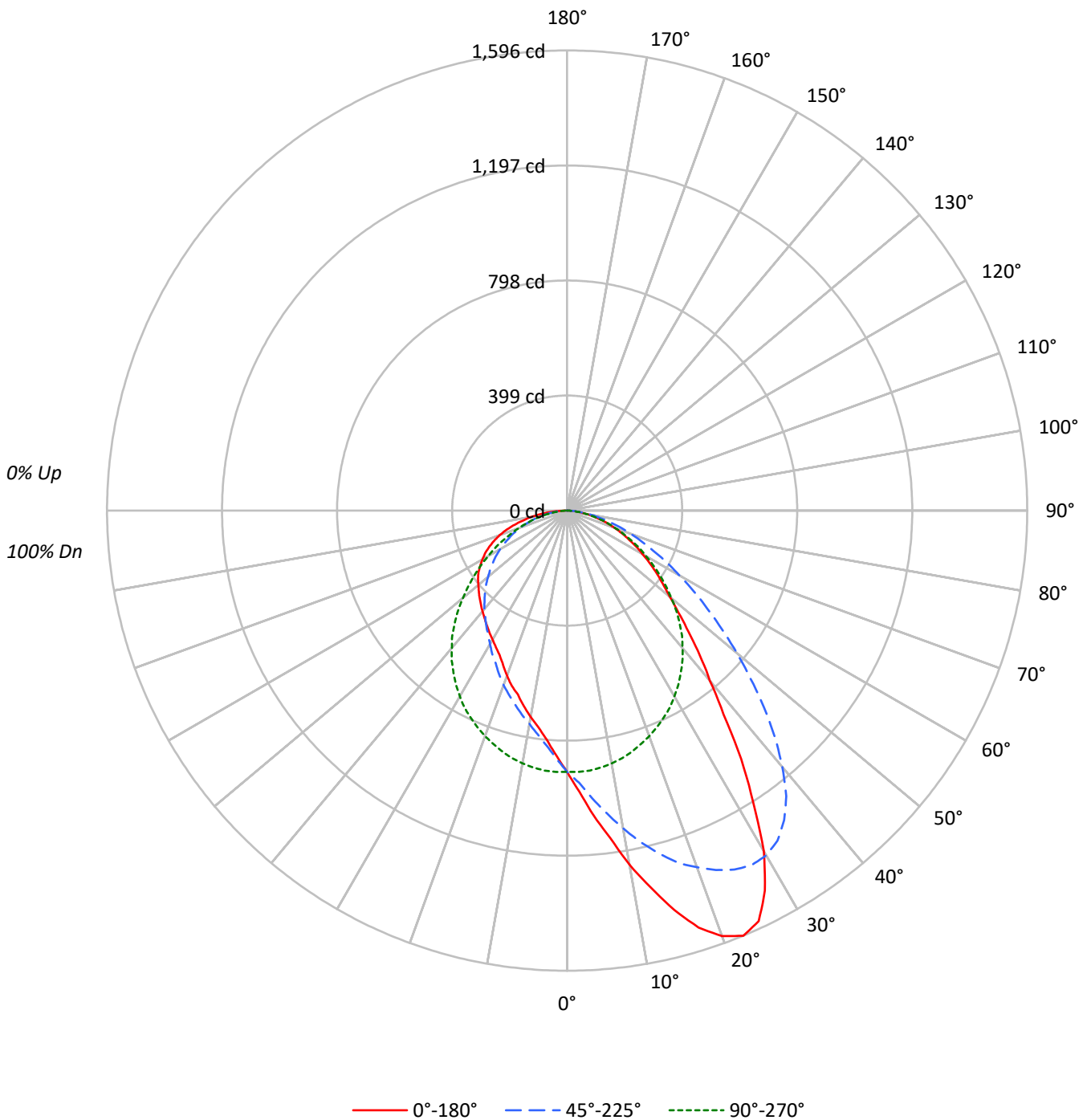
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2598.0 lumens  
Efficiency: N/A  
Efficacy: 110.1 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	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°	8054	8054	8054	8054	8054
5°	9477	8936	8075	7299	7128
10°	11263	10105	8038	6783	6563
15°	13191	11333	7968	6411	6078
20°	14854	12454	7875	6091	5765
25°	15415	13475	7770	5745	5427
30°	13999	14174	7637	5489	5307
35°	11421	14230	7456	5305	5273
40°	8943	13471	7222	5180	5296
45°	7485	12147	6932	5062	5393
50°	6423	10622	6526	4951	5554
55°	5869	9204	6087	4866	5822
60°	5378	7988	5634	4786	6036
65°	4932	6922	5157	4627	6270
70°	4538	6066	4652	4478	6458
75°	4039	5220	4090	4180	6453
80°	3368	4238	3353	3860	6434
85°	2560	3172	2529	3468	6038

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 50°  
 Vertical Angle: 45°  
 Luminance: 12697 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	88.2	3.4
10°-20°	273.1	10.5
20°-30°	438.8	16.9
30°-40°	501.6	19.3
40°-50°	461.7	17.8
50°-60°	377.7	14.5
60°-70°	269.2	10.4
70°-80°	147.9	5.7
80°-90°	39.7	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°	800.2	30.8
0°-40°	1301.8	50.1
0°-60°	2141.2	82.4
0°-90°	2598.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2598.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	906	906	906	906	906	
5°	1062	1002	905	818	799	107
15°	1433	1232	866	697	660	409
25°	1572	1374	792	586	553	705
35°	1052	1311	687	489	486	654
45°	595	966	551	403	429	465
55°	379	594	393	314	376	340
65°	234	329	245	220	298	234
75°	118	152	119	122	188	126
85°	25	31	25	34	59	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°	906.1	906.1	906.1	906.1	906.1	906.1	906.1	906.1	906.1	906.1	906.1
2.5°	975.6	972.6	971.2	969.3	968.9	967.1	963.4	958.2	951.6	944.5	944.5
5°	1062.1	1061.4	1055.8	1056.2	1049.2	1041.4	1035.5	1028.1	1013.7	1001.5	993.0
7.5°	1145.0	1152.7	1150.9	1145.0	1134.6	1123.5	1111.7	1101.3	1074.7	1059.9	1047.7
10°	1247.8	1250.7	1245.6	1237.1	1227.8	1206.4	1190.8	1173.4	1144.6	1119.5	1097.3
12.5°	1338.0	1345.0	1335.8	1327.7	1305.8	1289.9	1274.4	1239.6	1209.3	1177.5	1145.3
15°	1433.4	1426.0	1430.8	1410.9	1395.3	1380.2	1340.6	1305.1	1270.7	1231.5	1197.9
17.5°	1516.3	1516.3	1507.4	1494.5	1478.2	1449.7	1410.1	1370.9	1332.8	1281.4	1233.7
20°	1570.3	1574.3	1564.0	1550.3	1530.7	1501.1	1469.7	1427.1	1376.5	1316.6	1262.6
22.5°	1596.2	1596.9	1593.2	1581.7	1565.8	1540.7	1508.5	1467.1	1413.5	1349.1	1292.5
25°	1571.7	1575.8	1574.7	1574.0	1565.8	1551.4	1525.5	1487.1	1438.2	1373.9	1312.9
27.5°	1485.9	1495.9	1504.4	1508.1	1517.0	1517.8	1510.0	1486.7	1446.7	1386.1	1318.0
30°	1363.9	1358.7	1381.7	1393.1	1423.4	1441.6	1454.5	1453.0	1430.1	1380.9	1316.2
32.5°	1201.2	1215.2	1231.5	1258.5	1294.4	1336.5	1368.3	1392.0	1389.8	1357.6	1303.6
35°	1052.5	1052.5	1073.2	1106.5	1144.6	1195.3	1248.5	1292.5	1319.5	1311.4	1273.3
37.5°	891.3	901.3	924.9	950.8	997.4	1046.2	1116.5	1174.9	1231.5	1248.5	1228.9
40°	770.7	775.1	800.3	822.1	869.8	920.5	979.3	1054.0	1119.1	1160.9	1163.5
42.5°	681.2	680.8	691.2	710.8	749.3	794.4	858.0	931.2	1007.4	1066.6	1094.3
45°	595.4	594.7	605.4	625.4	652.7	692.7	747.8	821.0	899.0	966.3	1010.0
47.5°	522.9	529.6	534.4	549.9	572.5	606.5	653.8	712.3	787.4	862.8	921.6
50°	464.5	467.5	477.8	485.2	510.4	534.0	572.1	624.6	689.0	768.1	831.7
52.5°	417.9	419.7	426.0	435.7	450.1	470.8	501.1	549.6	607.6	676.4	742.2
55°	378.7	377.6	381.7	387.9	400.5	417.9	440.1	477.1	527.7	593.9	654.6
57.5°	340.2	340.2	343.9	348.4	355.4	369.8	391.6	420.9	461.5	520.3	574.0
60°	302.5	305.1	306.6	311.0	316.9	327.7	343.9	366.9	401.3	449.3	502.6
62.5°	269.2	269.2	271.8	273.3	281.1	288.8	300.7	320.3	347.3	390.2	431.6
65°	234.5	236.7	236.7	239.6	246.3	252.2	261.5	276.3	298.4	329.1	368.0
67.5°	204.9	204.9	206.7	208.2	211.9	216.0	224.1	235.6	254.4	278.8	314.0
70°	174.6	175.7	174.9	176.8	179.0	183.1	189.0	198.6	212.3	233.4	259.2
72.5°	147.2	145.7	146.4	148.3	149.4	152.0	155.7	163.1	174.2	191.2	210.1
75°	117.6	116.9	119.5	118.7	120.6	122.8	126.1	131.7	140.2	152.0	166.4
77.5°	91.7	90.6	91.7	92.5	93.2	95.0	97.6	101.0	106.9	114.6	127.6
80°	65.8	65.5	66.2	66.9	67.3	70.3	71.0	74.3	76.9	82.8	89.1
82.5°	43.6	44.4	44.7	45.5	45.1	46.6	47.3	49.6	51.8	54.7	59.5
85°	25.1	24.0	25.1	25.1	25.1	27.0	26.6	28.1	29.6	31.1	34.4
87.5°	8.9	8.9	9.2	9.6	9.6	10.7	10.4	11.1	12.6	12.6	13.7
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°	906.1	906.1	906.1	906.1	906.1	906.1	906.1	906.1	906.1	906.1	906.1
2.5°	942.3	938.2	935.3	926.8	921.6	916.8	912.4	907.5	902.4	895.7	891.6
5°	984.1	975.2	962.3	950.4	937.1	925.3	915.7	905.0	893.1	880.9	870.2
7.5°	1030.3	1013.7	993.7	971.9	951.2	933.8	915.7	898.7	882.0	865.8	850.6
10°	1076.6	1047.7	1021.5	991.5	964.1	937.9	914.2	890.5	869.8	848.4	829.1
12.5°	1119.5	1084.7	1046.2	1008.9	972.3	938.2	909.0	880.2	853.6	828.0	805.5
15°	1152.4	1108.7	1063.2	1018.9	976.7	941.2	903.1	865.8	838.0	807.0	782.2
17.5°	1190.1	1138.3	1093.2	1039.9	987.4	930.1	889.8	849.1	815.8	785.9	761.1
20°	1215.2	1158.3	1093.2	1032.9	978.9	927.5	879.1	832.5	797.3	762.6	732.6
22.5°	1235.2	1176.4	1104.7	1041.8	974.1	912.0	859.5	813.6	772.2	739.3	710.8
25°	1245.6	1173.8	1105.4	1029.2	961.5	902.0	842.8	792.2	750.4	713.8	689.3
27.5°	1245.9	1172.3	1091.3	1015.9	943.4	879.1	820.6	770.7	723.7	688.6	659.4
30°	1244.1	1162.7	1077.3	994.8	922.7	856.9	795.9	744.1	701.2	663.8	636.1
32.5°	1232.2	1149.4	1056.2	969.7	891.3	825.1	768.9	717.5	671.6	637.6	608.4
35°	1205.6	1120.2	1026.6	937.5	863.2	794.4	738.9	687.1	646.1	609.1	579.1
37.5°	1171.6	1091.7	996.7	903.5	823.2	758.1	706.0	657.2	614.3	580.3	550.3
40°	1128.7	1053.6	960.1	863.2	782.9	717.1	667.9	622.4	585.8	551.0	521.8
42.5°	1069.9	1012.2	916.1	821.7	737.8	675.7	628.0	590.2	552.5	521.1	491.9
45°	1007.0	954.5	869.1	775.5	694.9	630.9	586.2	551.4	519.2	487.4	463.8
47.5°	937.5	894.6	815.5	724.1	644.6	588.0	544.0	512.9	483.4	459.0	435.3
50°	854.7	832.1	758.1	675.3	598.0	539.9	503.7	471.9	450.1	426.4	404.2
52.5°	777.7	759.6	699.3	618.0	547.7	496.7	457.8	432.7	411.2	393.9	376.1
55°	694.2	684.9	633.9	563.6	500.0	449.0	415.7	392.8	375.7	359.5	346.5
57.5°	617.2	616.5	571.4	511.1	449.0	405.7	373.9	355.0	340.2	328.8	317.7
60°	538.5	544.7	507.8	452.7	403.5	362.8	333.9	316.9	307.0	296.2	287.0
62.5°	467.1	476.7	443.0	399.8	351.3	318.0	295.9	282.9	271.8	264.1	257.0
65°	398.7	410.9	383.5	344.7	307.7	276.3	257.4	245.2	236.7	232.2	227.4
67.5°	338.4	345.0	326.6	296.2	265.5	238.2	222.6	211.9	204.5	202.7	197.1
70°	278.1	285.9	272.9	245.2	221.5	201.6	187.5	179.0	174.6	172.0	168.3
72.5°	229.7	233.0	220.0	200.8	182.0	165.3	155.0	148.7	143.5	142.4	140.5
75°	179.7	184.5	174.2	159.4	143.9	132.0	124.3	119.1	116.5	114.6	114.6
77.5°	135.7	139.8	133.9	120.9	111.7	101.3	96.2	91.3	90.2	88.4	89.1
80°	96.5	98.4	95.0	86.2	78.0	72.5	68.0	65.5	65.1	63.6	65.1
82.5°	64.0	64.3	60.7	56.6	50.3	47.3	44.4	43.3	42.9	42.9	42.2
85°	35.5	36.2	33.7	31.1	28.8	26.3	25.5	24.8	24.0	25.1	25.9
87.5°	13.7	14.1	13.7	12.6	11.8	11.1	10.7	11.5	10.4	11.1	11.5
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°	906.1	906.1	906.1	906.1	906.1	906.1	906.1	906.1	906.1	906.1	906.1
2.5°	885.4	882.4	878.0	870.6	865.4	859.8	857.6	858.4	856.1	853.2	853.9
5°	862.1	853.6	846.2	835.8	826.2	818.0	815.5	812.1	809.2	807.3	805.5
7.5°	837.3	825.4	814.3	804.0	792.9	782.5	778.5	775.5	774.0	768.9	766.6
10°	813.6	799.9	786.6	774.4	762.9	751.5	747.4	743.7	738.5	736.3	733.7
12.5°	788.5	774.8	760.4	745.6	734.1	724.9	717.8	715.2	710.1	707.8	706.4
15°	764.1	747.4	735.9	724.5	707.1	696.7	693.8	684.5	681.6	677.1	674.2
17.5°	739.6	724.1	707.1	693.8	683.1	670.1	663.1	659.0	653.5	649.4	643.9
20°	715.6	697.5	684.2	667.5	655.7	643.9	635.0	631.3	626.5	620.9	613.2
22.5°	692.3	672.3	659.4	643.9	629.1	615.4	608.0	602.8	593.2	592.1	585.1
25°	664.9	647.2	630.2	613.9	599.5	585.8	581.0	572.9	569.5	562.9	561.8
27.5°	639.1	620.2	601.7	584.0	571.4	561.8	553.3	548.1	544.7	539.6	539.9
30°	612.1	591.3	574.0	557.7	544.0	534.8	529.2	526.6	521.8	521.1	518.5
32.5°	583.2	564.3	546.2	531.8	517.8	509.6	507.0	504.4	501.5	501.8	501.1
35°	554.4	537.7	518.5	505.2	493.7	488.9	484.8	484.1	483.0	483.7	483.7
37.5°	526.3	508.1	492.2	480.0	473.4	466.7	464.9	464.5	464.9	465.6	467.5
40°	498.9	482.2	466.7	456.7	449.3	446.4	443.8	444.9	446.4	449.0	451.2
42.5°	471.5	455.6	442.7	432.7	425.7	424.2	424.6	426.8	427.1	430.8	434.9
45°	442.7	429.0	416.8	409.0	404.6	402.7	403.5	405.7	408.3	413.5	418.6
47.5°	416.1	403.8	393.1	385.4	382.0	381.3	382.8	385.7	391.6	396.8	402.7
50°	389.1	378.0	368.0	360.9	360.6	358.0	361.3	365.0	372.0	379.1	387.9
52.5°	362.4	351.7	343.2	337.6	336.2	336.2	340.2	346.9	353.2	362.4	370.6
55°	334.7	325.1	316.9	315.1	312.9	314.0	318.4	325.1	333.9	344.3	353.2
57.5°	306.2	298.1	292.2	289.6	288.5	292.2	297.3	304.4	315.8	326.2	335.8
60°	279.2	272.2	265.9	265.2	264.4	269.2	275.5	282.9	294.4	304.7	316.6
62.5°	250.4	244.8	240.8	239.6	239.6	244.5	251.5	261.1	271.8	282.9	295.5
65°	221.2	216.3	215.2	213.8	217.1	220.0	227.1	236.3	247.8	260.0	273.3
67.5°	194.2	191.2	189.0	189.0	191.6	197.1	203.4	212.6	224.5	237.4	249.3
70°	167.2	164.2	162.4	164.2	165.7	172.3	179.0	187.9	199.0	211.5	224.1
72.5°	139.1	139.4	139.8	139.4	140.9	147.2	153.8	162.4	173.1	185.3	196.7
75°	114.3	112.4	112.8	113.5	118.3	121.7	128.3	136.5	147.9	159.0	168.6
77.5°	88.8	88.0	89.9	89.9	94.3	98.4	103.9	112.1	122.0	132.0	139.8
80°	65.1	65.5	66.9	67.3	71.0	75.4	81.4	86.9	95.8	102.8	110.2
82.5°	44.0	44.7	46.6	49.2	50.7	53.3	58.4	64.3	70.6	78.0	82.5
85°	25.5	26.6	28.1	30.0	31.4	34.0	37.7	42.5	47.0	51.0	54.7
87.5°	12.6	12.6	13.7	14.4	15.5	17.0	19.6	21.4	24.4	27.4	28.8
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: P243490

CATALOG NUMBER: S124DRP-H795D927-X4F0-XX-UDD-A-W

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	906.1	906.1	906.1	906.1
2.5°	852.4	852.1	850.6	851.3
5°	804.4	800.7	800.3	798.8
7.5°	762.9	761.8	761.8	758.9
10°	731.1	727.8	728.6	727.1
12.5°	700.8	699.0	696.7	694.5
15°	666.8	666.8	666.8	660.5
17.5°	640.2	639.8	637.9	637.6
20°	612.4	610.9	606.1	609.5
22.5°	584.3	583.2	579.1	579.9
25°	558.1	557.0	556.2	553.3
27.5°	535.5	535.9	536.6	534.8
30°	518.5	517.4	518.9	517.0
32.5°	502.6	502.6	501.1	501.5
35°	484.5	485.9	486.3	485.9
37.5°	468.6	470.4	471.9	470.4
40°	453.8	455.3	456.7	456.4
42.5°	438.2	440.8	441.9	443.0
45°	423.4	426.8	428.6	429.0
47.5°	408.3	412.4	416.1	415.7
50°	393.5	398.7	402.0	401.6
52.5°	378.7	383.9	387.9	389.8
55°	362.1	368.7	372.4	375.7
57.5°	345.4	352.8	356.5	358.0
60°	326.9	333.6	338.4	339.5
62.5°	306.2	313.2	319.5	321.0
65°	284.8	292.5	297.3	298.1
67.5°	260.0	267.4	272.2	274.4
70°	234.5	240.0	245.2	248.5
72.5°	206.0	212.6	217.5	219.7
75°	176.4	183.8	186.4	187.9
77.5°	145.7	150.1	154.2	154.6
80°	115.0	120.6	122.0	125.7
82.5°	84.7	89.9	88.8	90.2
85°	55.8	57.7	58.8	59.2
87.5°	29.6	30.7	31.4	31.8
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P243490  
 CATALOG NUMBER: S124DRP-H795D927-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	17.82	19.39	18.18	19.70	20.02	18.10	19.68	18.47	19.99	20.30
	3H	19.26	20.67	19.63	21.00	21.36	19.49	20.91	19.87	21.23	21.59
	4H	19.78	21.11	20.18	21.46	21.83	19.97	21.30	20.37	21.65	22.03
	6H	20.12	21.35	20.53	21.72	22.11	20.29	21.52	20.70	21.89	22.28
	8H	20.22	21.39	20.64	21.78	22.18	20.37	21.55	20.80	21.94	22.34
	12H	20.27	21.39	20.70	21.78	22.20	20.42	21.54	20.85	21.92	22.35
4H	2H	18.95	20.28	19.35	20.63	21.01	18.89	20.23	19.29	20.57	20.95
	3H	20.46	21.57	20.87	21.96	22.37	20.60	21.71	21.01	22.11	22.51
	4H	21.03	22.03	21.46	22.45	22.88	21.19	22.19	21.62	22.61	23.05
	6H	21.44	22.32	21.90	22.76	23.21	21.60	22.47	22.05	22.91	23.37
	8H	21.56	22.38	22.02	22.82	23.29	21.70	22.52	22.16	22.96	23.43
	12H	21.63	22.36	22.11	22.84	23.31	21.77	22.50	22.25	22.98	23.45
8H	4H	21.46	22.27	21.92	22.72	23.18	21.53	22.35	21.99	22.79	23.26
	6H	21.95	22.63	22.45	23.12	23.60	22.06	22.74	22.56	23.23	23.71
	8H	22.12	22.72	22.63	23.23	23.72	22.23	22.84	22.74	23.34	23.83
	12H	22.23	22.77	22.74	23.26	23.82	22.34	22.88	22.85	23.37	23.94
12H	4H	21.50	22.23	21.98	22.71	23.18	21.57	22.30	22.05	22.78	23.25
	6H	22.02	22.63	22.53	23.14	23.62	22.13	22.74	22.64	23.24	23.73
	8H	22.23	22.77	22.74	23.26	23.82	22.35	22.89	22.86	23.38	23.94