

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: P243520

Luminaire Tested: S124DRP-H795D940-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2024  
Report Number: P243520  
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-H795D940-X4F0-XX-UDD-A-W  
Description: DEFINE 4 DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER.  
HIGH PERFORMANCE LIGHT ENGINE  
Light Source: (184) 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

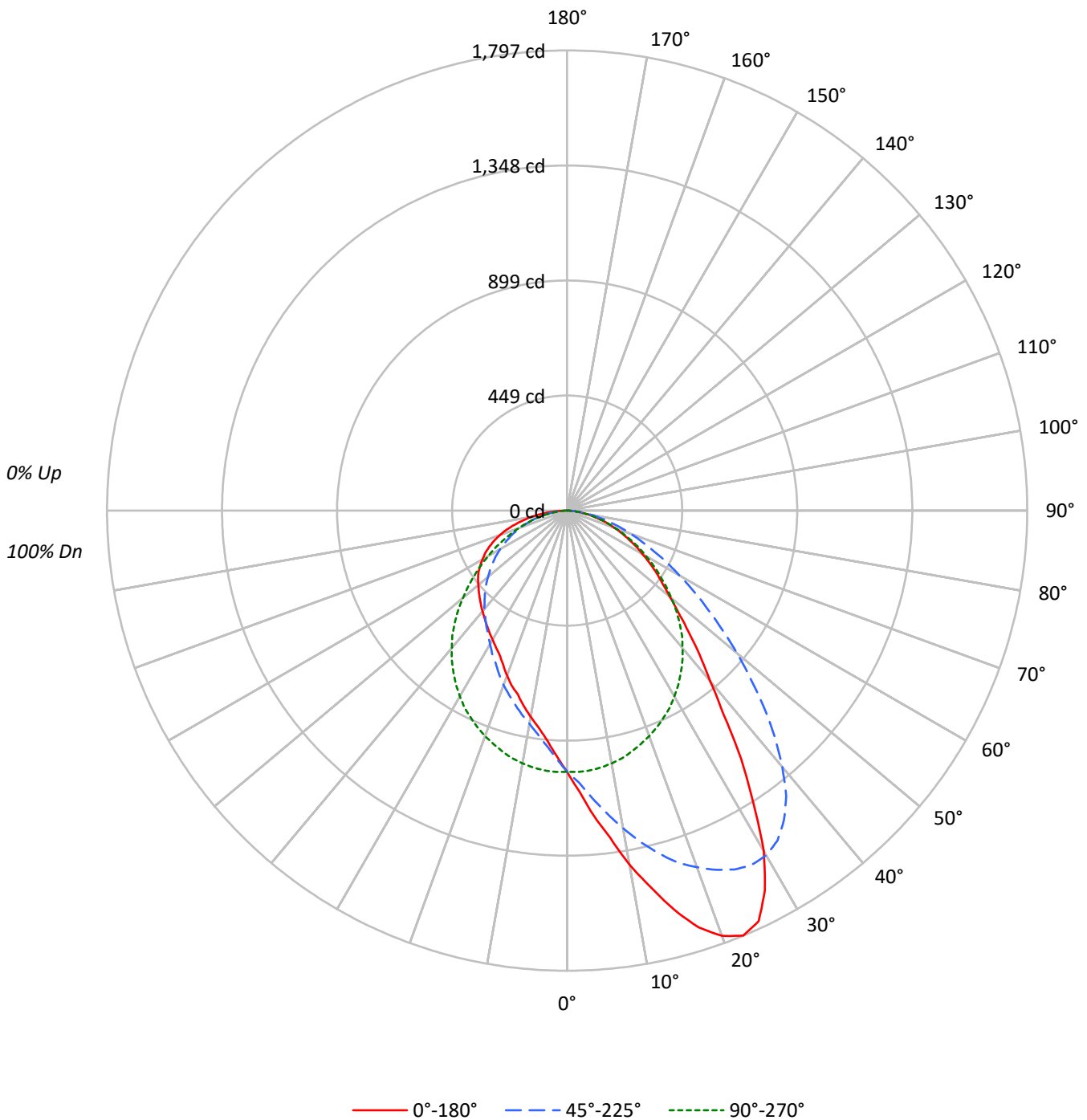
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2924.5 lumens  
Efficiency: N/A  
Efficacy: 123.9 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

TEST NUMBER: P243520

CATALOG NUMBER: S124DRP-H795D940-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	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°	9066	9066	9066	9066	9066
5°	10668	10059	9090	8216	8023
10°	12678	11374	9048	7635	7387
15°	14848	12756	8968	7218	6842
20°	16720	14019	8864	6856	6489
25°	17352	15168	8746	6467	6108
30°	15758	15954	8597	6179	5974
35°	12857	16019	8394	5972	5936
40°	10066	15162	8130	5831	5961
45°	8425	13675	7803	5698	6070
50°	7231	11956	7346	5573	6252
55°	6607	10362	6851	5477	6554
60°	6053	8992	6343	5388	6795
65°	5551	7793	5805	5210	7057
70°	5107	6827	5237	5042	7269
75°	4547	5876	4602	4705	7264
80°	3793	4771	3773	4346	7243
85°	2886	3570	2845	3906	6792

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 50°  
 Vertical Angle: 45°  
 Luminance: 14292 cd/sqm



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CATALOG NUMBER: S124DRP-H795D940-X4F0-XX-UDD-A-W

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	99.3	3.4
10°-20°	307.5	10.5
20°-30°	493.9	16.9
30°-40°	564.6	19.3
40°-50°	519.8	17.8
50°-60°	425.2	14.5
60°-70°	303.0	10.4
70°-80°	166.5	5.7
80°-90°	44.7	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°	900.7	30.8
0°-40°	1465.3	50.1
0°-60°	2410.2	82.4
0°-90°	2924.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2924.5	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1020	1020	1020	1020	1020	
5°	1196	1127	1019	921	899	120
15°	1614	1386	974	784	744	460
25°	1769	1546	892	659	623	794
35°	1185	1476	774	550	547	736
45°	670	1088	621	453	483	523
55°	426	669	442	353	423	382
65°	264	370	276	248	336	264
75°	132	171	134	137	212	141
85°	28	35	28	38	67	34
90°	0	0	0	0	0	



TEST NUMBER: P243520

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1019.9	1019.9	1019.9	1019.9	1019.9	1019.9	1019.9	1019.9	1019.9	1019.9	1019.9
2.5°	1098.2	1094.8	1093.2	1091.1	1090.7	1088.6	1084.4	1078.6	1071.1	1063.2	1063.2
5°	1195.6	1194.7	1188.5	1188.9	1181.0	1172.3	1165.6	1157.3	1141.0	1127.3	1117.7
7.5°	1288.8	1297.6	1295.5	1288.8	1277.2	1264.7	1251.4	1239.7	1209.7	1193.1	1179.3
10°	1404.6	1407.9	1402.1	1392.5	1382.1	1357.9	1340.4	1320.9	1288.4	1260.1	1235.1
12.5°	1506.1	1514.0	1503.6	1494.5	1469.9	1452.0	1434.5	1395.4	1361.3	1325.5	1289.2
15°	1613.5	1605.2	1610.6	1588.1	1570.6	1553.6	1509.0	1469.1	1430.4	1386.2	1348.4
17.5°	1706.8	1706.8	1696.8	1682.2	1663.9	1631.8	1587.3	1543.2	1500.3	1442.4	1388.7
20°	1767.6	1772.1	1760.5	1745.1	1723.0	1689.7	1654.3	1606.5	1549.4	1482.0	1421.2
22.5°	1796.7	1797.5	1793.4	1780.5	1762.6	1734.3	1698.0	1651.4	1591.0	1518.6	1454.9
25°	1769.2	1773.8	1772.5	1771.7	1762.6	1746.3	1717.2	1673.9	1618.9	1546.5	1477.8
27.5°	1672.6	1683.9	1693.5	1697.6	1707.6	1708.4	1699.7	1673.5	1628.5	1560.2	1483.6
30°	1535.3	1529.4	1555.2	1568.2	1602.3	1622.7	1637.3	1635.6	1609.8	1554.4	1481.6
32.5°	1352.1	1367.9	1386.2	1416.6	1457.0	1504.5	1540.3	1566.9	1564.4	1528.2	1467.4
35°	1184.8	1184.8	1208.1	1245.5	1288.4	1345.4	1405.4	1454.9	1485.3	1476.2	1433.3
37.5°	1003.3	1014.5	1041.1	1070.3	1122.7	1177.7	1256.8	1322.5	1386.2	1405.4	1383.3
40°	867.5	872.5	900.8	925.4	979.1	1036.1	1102.3	1186.4	1259.7	1306.7	1309.6
42.5°	766.8	766.4	778.0	800.1	843.4	894.2	965.8	1048.2	1134.0	1200.6	1231.8
45°	670.2	669.4	681.5	703.9	734.7	779.7	841.7	924.2	1012.0	1087.8	1136.9
47.5°	588.6	596.1	601.5	619.0	644.4	682.7	736.0	801.8	886.3	971.2	1037.4
50°	522.9	526.2	537.8	546.2	574.5	601.1	644.0	703.1	775.5	864.6	936.2
52.5°	470.4	472.5	479.6	490.4	506.6	529.9	564.1	618.6	684.0	761.4	835.5
55°	426.3	425.0	429.6	436.7	450.8	470.4	495.4	537.0	594.0	668.6	736.8
57.5°	383.0	383.0	387.1	392.1	400.1	416.3	440.8	473.7	519.5	585.7	646.1
60°	340.5	343.4	345.1	350.1	356.8	368.8	387.1	413.0	451.7	505.8	565.7
62.5°	303.1	303.1	306.0	307.6	316.4	325.1	338.4	360.5	390.9	439.2	485.8
65°	263.9	266.4	266.4	269.8	277.2	283.9	294.3	311.0	335.9	370.5	414.2
67.5°	230.6	230.6	232.7	234.4	238.5	243.1	252.3	265.2	286.4	313.9	353.4
70°	196.5	197.7	196.9	199.0	201.5	206.1	212.7	223.5	238.9	262.7	291.8
72.5°	165.7	164.0	164.8	166.9	168.2	171.1	175.3	183.6	196.1	215.2	236.5
75°	132.4	131.5	134.5	133.6	135.7	138.2	142.0	148.2	157.8	171.1	187.3
77.5°	103.2	102.0	103.2	104.1	104.9	107.0	109.9	113.6	120.3	129.0	143.6
80°	74.1	73.7	74.5	75.3	75.8	79.1	79.9	83.7	86.6	93.2	100.3
82.5°	49.1	50.0	50.4	51.2	50.8	52.5	53.3	55.8	58.3	61.6	67.0
85°	28.3	27.1	28.3	28.3	28.3	30.4	30.0	31.6	33.3	35.0	38.7
87.5°	10.0	10.0	10.4	10.8	10.8	12.1	11.7	12.5	14.2	14.2	15.4
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: P243520

CATALOG NUMBER: S124DRP-H795D940-X4F0-XX-UDD-A-W

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1019.9	1019.9	1019.9	1019.9	1019.9	1019.9	1019.9	1019.9	1019.9	1019.9	1019.9
2.5°	1060.7	1056.1	1052.8	1043.2	1037.4	1032.0	1027.0	1021.6	1015.7	1008.2	1003.7
5°	1107.7	1097.7	1083.2	1069.9	1054.9	1041.5	1030.7	1018.7	1005.3	991.6	979.5
7.5°	1159.8	1141.0	1118.6	1094.0	1070.7	1051.1	1030.7	1011.6	992.8	974.5	957.5
10°	1211.8	1179.3	1149.8	1116.1	1085.3	1055.7	1029.1	1002.4	979.1	955.0	933.3
12.5°	1260.1	1221.0	1177.7	1135.6	1094.4	1056.1	1023.2	990.8	960.8	932.1	906.7
15°	1297.1	1248.0	1196.8	1146.9	1099.4	1059.4	1016.6	974.5	943.3	908.3	880.4
17.5°	1339.6	1281.3	1230.5	1170.6	1111.5	1047.0	1001.6	955.8	918.3	884.6	856.7
20°	1367.9	1303.8	1230.5	1162.7	1101.9	1044.0	989.5	937.1	897.5	858.4	824.7
22.5°	1390.4	1324.2	1243.4	1172.7	1096.5	1026.6	967.5	915.8	869.2	832.2	800.1
25°	1402.1	1321.3	1244.3	1158.5	1082.3	1015.3	948.7	891.7	844.6	803.4	776.0
27.5°	1402.5	1319.6	1228.5	1143.5	1061.9	989.5	923.7	867.5	814.7	775.1	742.2
30°	1400.4	1308.8	1212.6	1119.8	1038.6	964.5	895.8	837.6	789.3	747.2	716.0
32.5°	1387.1	1293.8	1188.9	1091.5	1003.3	928.7	865.5	807.6	756.0	717.7	684.8
35°	1357.1	1260.9	1155.6	1055.3	971.6	894.2	831.7	773.5	727.3	685.6	651.9
37.5°	1318.8	1228.9	1121.9	1017.0	926.7	853.4	794.7	739.7	691.5	653.2	619.4
40°	1270.5	1186.0	1080.7	971.6	881.3	807.2	751.8	700.6	659.4	620.3	587.4
42.5°	1204.3	1139.4	1031.1	925.0	830.5	760.6	706.9	664.4	621.9	586.5	553.7
45°	1133.5	1074.4	978.3	873.0	782.2	710.2	659.8	620.7	584.5	548.7	522.0
47.5°	1055.3	1007.0	917.9	815.1	725.6	661.9	612.4	577.4	544.1	516.6	490.0
50°	962.0	936.6	853.4	760.1	673.1	607.8	567.0	531.2	506.6	480.0	455.0
52.5°	875.5	855.1	787.2	695.6	616.5	559.1	515.4	487.1	462.9	443.3	423.4
55°	781.4	771.0	713.5	634.4	562.8	505.4	467.9	442.1	422.9	404.6	390.1
57.5°	694.8	693.9	643.2	575.3	505.4	456.7	420.9	399.6	383.0	370.1	357.6
60°	606.1	613.2	571.6	509.5	454.2	408.4	375.9	356.8	345.5	333.4	323.0
62.5°	525.8	536.6	498.7	450.0	395.5	358.0	333.0	318.5	306.0	297.2	289.3
65°	448.8	462.5	431.7	388.0	346.4	311.0	289.7	276.0	266.4	261.4	256.0
67.5°	380.9	388.4	367.6	333.4	298.9	268.1	250.6	238.5	230.2	228.1	221.9
70°	313.0	321.8	307.2	276.0	249.4	226.9	211.1	201.5	196.5	193.6	189.4
72.5°	258.5	262.3	247.7	226.0	204.8	186.1	174.4	167.3	161.5	160.3	158.2
75°	202.3	207.7	196.1	179.4	161.9	148.6	139.9	134.0	131.1	129.0	129.0
77.5°	152.8	157.4	150.7	136.1	125.7	114.1	108.2	102.8	101.6	99.5	100.3
80°	108.7	110.7	107.0	97.0	87.8	81.6	76.6	73.7	73.3	71.6	73.3
82.5°	72.0	72.4	68.3	63.7	56.6	53.3	50.0	48.7	48.3	48.3	47.5
85°	40.0	40.8	37.9	35.0	32.5	29.6	28.7	27.9	27.1	28.3	29.1
87.5°	15.4	15.8	15.4	14.2	13.3	12.5	12.1	12.9	11.7	12.5	12.9
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: P243520

CATALOG NUMBER: S124DRP-H795D940-X4F0-XX-UDD-A-W

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1019.9	1019.9	1019.9	1019.9	1019.9	1019.9	1019.9	1019.9	1019.9	1019.9	1019.9
2.5°	996.6	993.3	988.3	979.9	974.1	967.9	965.4	966.2	963.7	960.4	961.2
5°	970.4	960.8	952.5	940.8	930.0	920.8	917.9	914.2	910.8	908.8	906.7
7.5°	942.5	929.2	916.7	905.0	892.5	880.9	876.3	873.0	871.3	865.5	863.0
10°	915.8	900.4	885.4	871.7	858.8	845.9	841.3	837.2	831.3	828.8	825.9
12.5°	887.5	872.1	855.9	839.2	826.3	815.9	808.0	805.1	799.3	796.8	795.1
15°	860.0	841.3	828.4	815.5	795.9	784.3	781.0	770.5	767.2	762.2	758.9
17.5°	832.6	815.1	795.9	781.0	768.9	754.3	746.4	741.8	735.6	731.0	724.8
20°	805.5	785.1	770.1	751.4	738.1	724.8	714.8	710.6	705.2	698.9	690.2
22.5°	779.3	756.8	742.2	724.8	708.1	692.7	684.4	678.5	667.7	666.5	658.6
25°	748.5	728.5	709.4	691.0	674.8	659.4	654.0	644.8	641.1	633.6	632.3
27.5°	719.3	698.1	677.3	657.3	643.2	632.3	622.8	616.9	613.2	607.4	607.8
30°	689.0	665.6	646.1	627.8	612.4	602.0	595.7	592.8	587.4	586.5	583.6
32.5°	656.5	635.3	614.9	598.6	582.8	573.6	570.7	567.8	564.5	564.9	564.1
35°	624.0	605.3	583.6	568.6	555.7	550.3	545.8	544.9	543.7	544.5	544.5
37.5°	592.4	572.0	554.1	540.3	532.8	525.4	523.3	522.9	523.3	524.1	526.2
40°	561.6	542.8	525.4	514.1	505.8	502.5	499.5	500.8	502.5	505.4	507.9
42.5°	530.8	512.9	498.3	487.1	479.1	477.5	477.9	480.4	480.8	485.0	489.6
45°	498.3	482.9	469.2	460.4	455.4	453.3	454.2	456.7	459.6	465.4	471.2
47.5°	468.3	454.6	442.5	433.8	430.0	429.2	430.9	434.2	440.8	446.7	453.3
50°	437.9	425.4	414.2	406.3	405.9	403.0	406.7	410.9	418.8	426.7	436.7
52.5°	408.0	395.9	386.3	380.1	378.4	378.4	383.0	390.5	397.6	408.0	417.1
55°	376.7	365.9	356.8	354.7	352.2	353.4	358.4	365.9	375.9	387.6	397.6
57.5°	344.7	335.5	328.9	326.0	324.7	328.9	334.7	342.6	355.5	367.2	378.0
60°	314.3	306.4	299.3	298.5	297.6	303.1	310.1	318.5	331.4	343.0	356.3
62.5°	281.8	275.6	271.0	269.8	269.8	275.2	283.1	293.9	306.0	318.5	332.6
65°	248.9	243.5	242.3	240.6	244.4	247.7	255.6	266.0	278.9	292.6	307.6
67.5°	218.6	215.2	212.7	212.7	215.6	221.9	229.0	239.4	252.7	267.3	280.6
70°	188.2	184.8	182.7	184.8	186.5	194.0	201.5	211.5	224.0	238.1	252.3
72.5°	156.5	156.9	157.4	156.9	158.6	165.7	173.2	182.7	194.8	208.6	221.5
75°	128.6	126.6	127.0	127.8	133.2	137.0	144.5	153.6	166.5	179.0	189.8
77.5°	99.9	99.1	101.2	101.2	106.2	110.7	117.0	126.1	137.4	148.6	157.4
80°	73.3	73.7	75.3	75.8	79.9	84.9	91.6	97.8	107.8	115.7	124.1
82.5°	49.5	50.4	52.5	55.4	57.0	59.9	65.8	72.4	79.5	87.8	92.8
85°	28.7	30.0	31.6	33.7	35.4	38.3	42.5	47.9	52.9	57.4	61.6
87.5°	14.2	14.2	15.4	16.2	17.5	19.1	22.1	24.1	27.5	30.8	32.5
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: P243520

CATALOG NUMBER: S124DRP-H795D940-X4F0-XX-UDD-A-W

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	1019.9	1019.9	1019.9	1019.9
2.5°	959.5	959.1	957.5	958.3
5°	905.4	901.3	900.8	899.2
7.5°	858.8	857.6	857.6	854.2
10°	823.0	819.3	820.1	818.4
12.5°	788.9	786.8	784.3	781.8
15°	750.6	750.6	750.6	743.5
17.5°	720.6	720.2	718.1	717.7
20°	689.4	687.7	682.3	686.0
22.5°	657.7	656.5	651.9	652.7
25°	628.2	626.9	626.1	622.8
27.5°	602.8	603.2	604.0	602.0
30°	583.6	582.4	584.1	582.0
32.5°	565.7	565.7	564.1	564.5
35°	545.3	547.0	547.4	547.0
37.5°	527.4	529.5	531.2	529.5
40°	510.8	512.4	514.1	513.7
42.5°	493.3	496.2	497.5	498.7
45°	476.6	480.4	482.5	482.9
47.5°	459.6	464.2	468.3	467.9
50°	442.9	448.8	452.5	452.1
52.5°	426.3	432.1	436.7	438.8
55°	407.5	415.0	419.2	422.9
57.5°	388.8	397.1	401.3	403.0
60°	368.0	375.5	380.9	382.2
62.5°	344.7	352.6	359.7	361.3
65°	320.5	329.3	334.7	335.5
67.5°	292.6	301.0	306.4	308.9
70°	263.9	270.2	276.0	279.7
72.5°	231.9	239.4	244.8	247.3
75°	198.6	206.9	209.8	211.5
77.5°	164.0	169.0	173.6	174.0
80°	129.5	135.7	137.4	141.5
82.5°	95.3	101.2	99.9	101.6
85°	62.9	64.9	66.2	66.6
87.5°	33.3	34.6	35.4	35.8
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P243520  
 CATALOG NUMBER: S124DRP-H795D940-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	18.23	19.80	18.59	20.11	20.43	18.52	20.09	18.88	20.40	20.72
	3H	19.67	21.08	20.05	21.41	21.77	19.90	21.32	20.28	21.64	22.01
	4H	20.19	21.52	20.59	21.87	22.24	20.38	21.72	20.78	22.06	22.44
	6H	20.53	21.77	20.95	22.13	22.52	20.70	21.93	21.11	22.30	22.69
	8H	20.63	21.80	21.06	22.19	22.59	20.78	21.96	21.21	22.35	22.75
	12H	20.68	21.81	21.11	22.19	22.62	20.83	21.95	21.26	22.34	22.76
4H	2H	19.36	20.69	19.76	21.04	21.42	19.31	20.64	19.70	20.98	21.36
	3H	20.87	21.98	21.28	22.38	22.78	21.01	22.12	21.42	22.52	22.92
	4H	21.44	22.44	21.87	22.86	23.29	21.60	22.61	22.04	23.02	23.46
	6H	21.85	22.73	22.31	23.17	23.63	22.01	22.88	22.46	23.32	23.78
	8H	21.97	22.79	22.43	23.23	23.70	22.11	22.93	22.57	23.37	23.84
	12H	22.04	22.78	22.52	23.25	23.72	22.18	22.91	22.66	23.39	23.86
8H	4H	21.87	22.68	22.33	23.13	23.59	21.94	22.76	22.41	23.20	23.67
	6H	22.36	23.04	22.86	23.53	24.01	22.48	23.15	22.97	23.64	24.12
	8H	22.53	23.14	23.04	23.64	24.13	22.64	23.25	23.15	23.76	24.24
	12H	22.64	23.18	23.15	23.67	24.24	22.76	23.29	23.26	23.78	24.35
12H	4H	21.91	22.64	22.39	23.12	23.59	21.98	22.71	22.46	23.19	23.66
	6H	22.43	23.04	22.94	23.55	24.04	22.54	23.15	23.05	23.65	24.14
	8H	22.64	23.18	23.15	23.67	24.24	22.76	23.30	23.27	23.79	24.35