

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: P242488

Luminaire Tested: S123DRP-S775D940-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2024  
Report Number: P242488  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S123DRP-S775D940-X4F0-XX-UDD-A-W  
Description: DEFINE 3 DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER  
STANDARD LIGHT ENGINE  
Light Source: (92) 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

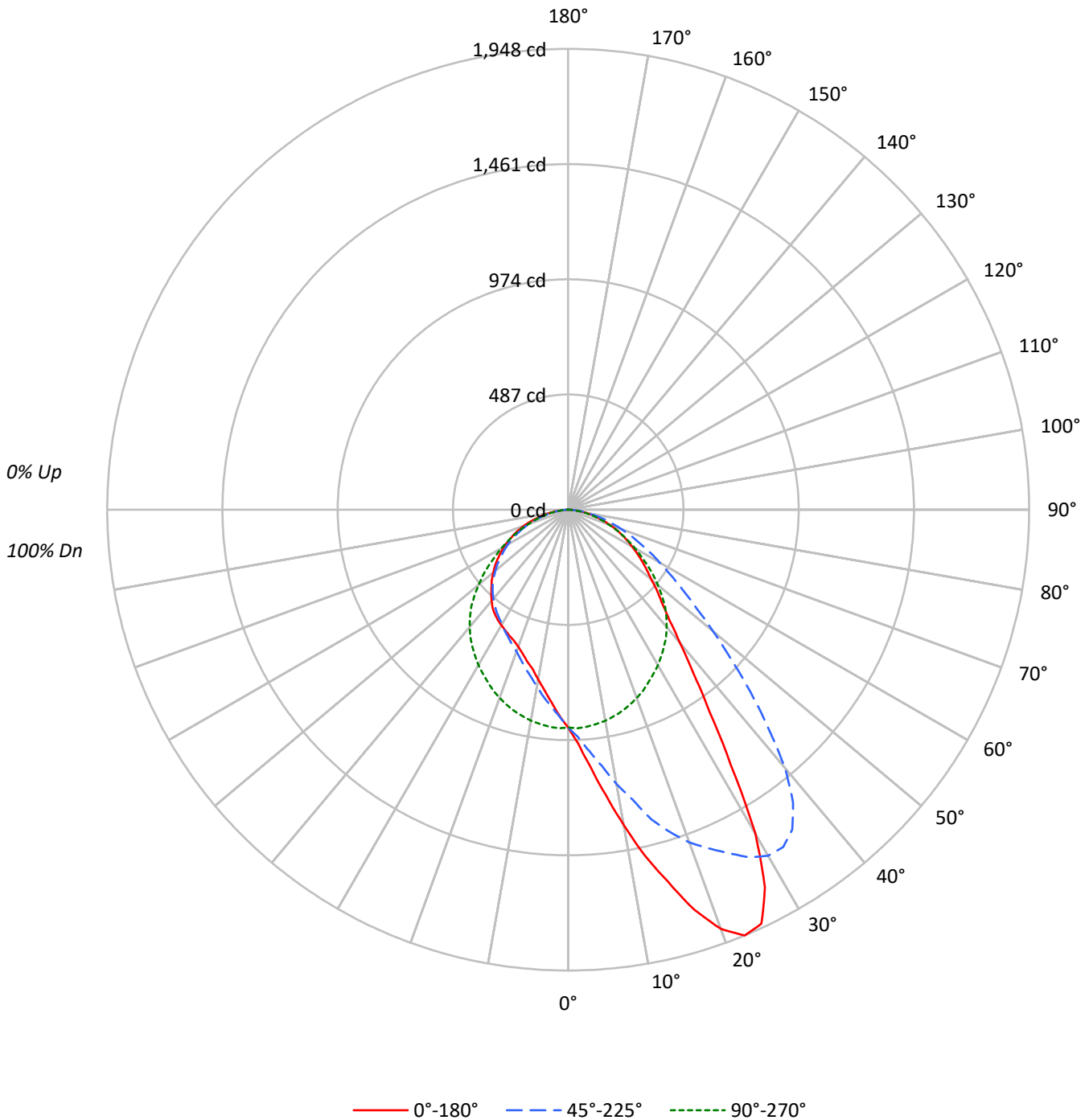
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2777.4 lumens  
Efficiency: N/A  
Efficacy: 105.2 lumens/watt  
Spacing Criteria (0/90/45): 1.37 / 1.23 / 1.5  
Luminous Opening: Rectangular (W 3.88' x L: 0.23' 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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### 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	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85			85	
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	74	72			72	
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62			62	
4	84	73	65	58	82	72	64	58	69	62	57	67	61	56	65	60	56	53			53	
5	78	66	57	51	76	64	56	50	62	55	50	60	54	49	59	53	49	47			47	
6	72	59	51	44	70	58	50	44	56	49	44	55	48	43	53	48	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	39	35	45	39	35	33			33	
9	58	45	37	32	57	45	37	32	43	36	32	42	36	31	41	36	31	29			29	
10	55	42	34	29	53	41	34	29	40	33	29	39	33	29	38	33	28	27			27	

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°	135°	180°
0°	11154	11154	11154	11154	11154
5°	13302	12466	11203	10144	9927
10°	16649	14493	11145	9346	8967
15°	20421	16997	11056	8716	8347
20°	24326	19300	10915	8223	7947
25°	25831	21407	10745	7984	7859
30°	22139	23637	10620	7831	7900
35°	15398	24423	10444	7804	7983
40°	11598	22546	10236	7788	7957
45°	9630	18647	9927	7734	7856
50°	8625	15048	9299	7583	7784
55°	8064	12483	8620	7367	7688
60°	7566	10798	7913	7154	7610
65°	7110	9502	7213	6789	7365
70°	6666	8484	6415	6241	7017
75°	5971	7348	5615	5573	6430
80°	5228	6038	4607	4509	5542
85°	4089	4715	3352	3282	3727

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 55°  
 Vertical Angle: 45°  
 Luminance: 22041 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	90.5	3.3
10°-20°	290.7	10.5
20°-30°	489.1	17.6
30°-40°	552.8	19.9
40°-50°	495.1	17.8
50°-60°	399.6	14.4
60°-70°	278.5	10.0
70°-80°	146.2	5.3
80°-90°	35.0	1.3
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°	870.3	31.3
0°-40°	1423.0	51.2
0°-60°	2317.8	83.5
0°-90°	2777.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2777.4	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	920	920	920	920	920	
5°	1093	1024	921	834	816	112
15°	1627	1354	881	695	665	470
25°	1931	1601	803	597	588	854
35°	1041	1650	706	527	540	672
45°	562	1088	579	451	458	443
55°	382	591	408	349	364	342
65°	248	331	252	237	257	247
75°	128	157	120	119	137	136
85°	29	34	24	24	27	36
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°	920.2	920.2	920.2	920.2	920.2	920.2	920.2	920.2	920.2	920.2	920.2
2.5°	990.7	989.8	987.5	989.3	985.7	980.8	980.4	975.9	963.0	962.1	958.6
5°	1093.2	1089.6	1089.2	1088.7	1082.5	1074.0	1058.0	1056.6	1035.2	1024.5	1011.6
7.5°	1217.1	1215.8	1212.2	1208.2	1187.3	1177.0	1161.9	1142.2	1117.3	1093.2	1078.0
10°	1352.7	1367.4	1349.1	1336.6	1325.0	1303.2	1277.8	1246.1	1214.5	1177.5	1149.4
12.5°	1498.0	1503.4	1503.4	1491.8	1472.2	1436.0	1386.1	1350.4	1321.9	1254.1	1230.1
15°	1627.3	1654.5	1637.1	1597.0	1597.9	1566.2	1507.4	1442.7	1408.4	1354.5	1280.9
17.5°	1773.5	1778.4	1773.1	1735.6	1717.4	1671.4	1618.4	1558.2	1493.6	1428.0	1351.8
20°	1885.9	1883.2	1867.6	1850.2	1811.9	1778.0	1718.7	1649.6	1560.4	1496.2	1411.1
22.5°	1948.3	1943.4	1938.1	1924.2	1893.9	1856.9	1805.2	1728.1	1644.2	1549.7	1448.1
25°	1931.4	1937.2	1938.1	1934.0	1922.9	1901.0	1859.1	1799.0	1714.2	1600.6	1498.0
27.5°	1800.3	1815.0	1833.7	1846.2	1866.3	1879.6	1866.3	1828.4	1758.8	1657.2	1531.0
30°	1581.8	1564.0	1608.1	1663.9	1701.8	1768.6	1806.1	1808.3	1773.1	1688.8	1566.7
32.5°	1278.7	1307.6	1321.0	1392.8	1486.9	1564.0	1647.8	1722.3	1739.7	1690.6	1587.6
35°	1040.6	1065.1	1100.8	1136.4	1225.6	1302.3	1433.4	1547.5	1638.5	1650.5	1585.0
37.5°	864.9	879.2	901.0	938.9	1000.0	1095.0	1198.9	1347.3	1472.6	1560.9	1552.0
40°	733.0	736.5	761.9	789.1	836.4	911.3	1002.7	1130.2	1288.0	1424.9	1482.0
42.5°	634.0	642.9	650.0	675.9	711.1	762.8	846.2	946.1	1087.4	1250.1	1375.4
45°	561.8	570.7	577.4	594.7	621.5	659.4	718.7	815.0	925.1	1087.8	1238.1
47.5°	511.8	510.9	516.7	530.5	549.7	580.0	623.7	687.9	793.6	929.6	1087.0
50°	457.4	464.6	466.3	476.6	490.9	511.8	546.6	599.2	682.1	798.0	939.8
52.5°	419.1	420.0	425.8	432.5	444.5	459.7	488.6	527.0	587.6	682.1	809.6
55°	381.6	381.6	386.5	392.3	399.5	414.2	434.2	464.6	514.1	590.7	698.6
57.5°	346.9	348.6	353.1	354.4	360.7	370.9	388.3	412.4	450.3	512.3	601.4
60°	312.1	316.1	315.7	319.2	324.6	332.1	346.4	365.1	398.1	445.4	517.6
62.5°	281.8	280.4	280.4	284.9	290.2	297.4	305.4	321.0	347.8	388.3	447.2
65°	247.9	247.0	250.1	252.8	254.6	259.9	267.1	281.3	300.0	331.3	379.0
67.5°	218.5	215.8	218.0	218.9	222.0	226.5	233.6	242.5	257.7	284.0	322.3
70°	188.1	185.9	185.5	186.4	189.0	192.2	197.1	205.5	219.4	239.4	265.7
72.5°	156.9	155.6	155.6	157.8	158.7	160.5	163.6	171.2	181.5	195.3	219.4
75°	127.5	127.5	127.5	128.0	129.3	131.1	133.8	137.8	146.2	156.9	173.4
77.5°	100.8	101.2	100.3	99.9	102.1	103.0	103.4	107.9	112.8	120.8	133.8
80°	74.9	72.7	73.6	74.9	75.8	76.2	77.6	78.5	82.5	86.5	95.0
82.5°	50.8	49.0	49.0	51.3	51.3	51.7	53.1	54.4	55.3	58.9	62.4
85°	29.4	29.4	29.9	29.9	30.3	29.9	31.2	31.7	31.7	33.9	36.6
87.5°	13.4	12.5	12.9	13.4	12.9	13.4	13.8	14.3	14.7	15.2	15.6
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):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	920.2	920.2	920.2	920.2	920.2	920.2	920.2	920.2	920.2	920.2	920.2
2.5°	955.9	952.3	948.7	942.5	937.1	929.6	927.3	924.7	916.6	909.5	904.2
5°	1006.7	996.0	980.4	966.1	954.5	938.9	930.0	920.7	907.3	895.2	885.4
7.5°	1055.3	1036.6	1014.7	991.1	968.4	946.5	929.1	913.5	896.1	879.2	866.3
10°	1115.5	1085.2	1051.3	1014.7	983.5	953.2	927.8	905.5	881.4	860.5	843.1
12.5°	1184.1	1135.5	1085.6	1039.2	1000.9	955.9	923.8	893.9	865.8	839.5	819.4
15°	1235.4	1178.3	1123.1	1062.0	1005.8	953.2	916.6	881.0	849.3	823.5	798.5
17.5°	1286.2	1223.8	1153.4	1079.8	1013.8	953.2	903.3	864.9	826.1	794.9	770.9
20°	1328.1	1254.6	1172.1	1095.0	1020.1	950.5	894.3	846.2	803.4	770.0	741.9
22.5°	1364.3	1275.1	1189.0	1105.2	1019.6	943.4	877.9	827.9	780.7	748.1	717.8
25°	1387.0	1284.0	1198.4	1101.7	1008.5	930.9	859.6	803.4	757.0	718.7	687.9
27.5°	1408.4	1282.7	1185.9	1081.6	995.1	918.0	841.3	781.1	732.5	691.0	659.4
30°	1429.8	1284.9	1164.1	1061.1	973.7	893.5	819.4	758.8	707.1	664.7	635.3
32.5°	1443.2	1283.6	1144.0	1032.6	939.8	871.2	795.8	732.5	679.0	637.5	609.5
35°	1446.7	1276.0	1120.4	991.1	902.8	833.7	770.9	705.8	650.0	611.2	579.1
37.5°	1439.2	1262.2	1094.5	953.6	858.2	789.6	734.7	679.0	625.5	582.3	554.2
40°	1414.6	1248.8	1063.3	913.5	811.9	746.3	701.3	646.9	594.3	553.7	527.9
42.5°	1367.8	1221.6	1029.0	868.9	763.7	698.2	657.6	614.4	565.3	527.9	502.0
45°	1285.8	1179.7	994.7	824.4	716.5	648.7	612.1	579.1	534.1	497.1	474.8
47.5°	1181.0	1123.1	945.2	777.5	667.0	601.4	563.1	535.9	500.7	470.8	449.0
50°	1070.9	1049.9	894.8	729.4	617.5	553.7	517.2	493.1	469.5	439.6	420.0
52.5°	943.8	965.2	835.9	679.5	567.1	504.7	470.8	453.0	432.0	408.8	392.3
55°	826.1	872.9	766.4	622.4	517.2	457.4	424.9	407.9	395.5	377.2	362.5
57.5°	712.0	771.7	694.2	564.9	468.1	416.0	383.9	364.7	356.7	346.4	334.4
60°	612.6	671.4	615.7	506.9	418.6	369.6	342.0	326.4	318.3	311.6	301.8
62.5°	523.9	583.6	539.0	448.1	370.0	325.5	302.3	287.1	281.3	278.6	270.6
65°	444.1	495.3	464.1	386.5	324.1	284.0	262.2	251.5	245.7	244.3	239.0
67.5°	374.9	414.6	390.6	332.1	281.3	244.8	225.6	216.2	211.3	210.9	206.4
70°	307.2	343.7	326.4	274.6	232.3	205.1	189.0	181.0	178.3	177.9	175.7
72.5°	254.6	277.3	264.4	223.4	193.0	169.0	158.3	149.8	146.7	147.6	146.2
75°	196.2	215.3	207.3	177.4	151.1	135.1	125.3	119.9	117.3	118.6	116.8
77.5°	149.8	163.2	155.2	132.4	115.5	103.4	95.9	92.3	89.6	89.6	88.7
80°	106.6	113.7	109.7	97.2	83.8	74.0	68.2	66.0	64.6	64.2	63.8
82.5°	68.2	74.0	69.1	61.5	53.5	48.6	45.9	42.8	41.9	42.4	41.9
85°	38.3	40.6	38.8	33.4	29.9	27.2	25.4	24.1	23.2	23.6	22.7
87.5°	16.5	16.9	15.6	13.8	12.9	11.6	11.6	10.7	9.8	9.8	9.4
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):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	920.2	920.2	920.2	920.2	920.2	920.2	920.2	920.2	920.2	920.2	920.2
2.5°	901.0	897.9	893.5	886.8	881.4	872.9	872.9	874.3	874.3	873.8	872.9
5°	877.4	870.7	862.7	853.3	843.5	833.7	831.9	828.4	825.7	823.9	821.7
7.5°	853.3	842.2	831.0	818.1	807.0	797.6	790.9	785.1	781.6	777.5	774.4
10°	828.8	814.1	800.3	786.5	771.3	759.3	751.7	746.3	742.3	738.8	737.0
12.5°	799.8	782.4	766.8	753.9	737.0	724.5	717.4	715.6	710.7	702.2	697.7
15°	771.7	756.1	737.9	717.8	709.8	694.6	686.1	682.1	679.5	673.7	671.9
17.5°	748.6	727.6	706.7	691.9	677.2	665.2	660.3	654.9	651.4	646.0	644.7
20°	719.6	701.3	682.6	666.5	650.9	637.5	633.5	630.0	626.4	624.2	622.4
22.5°	690.2	671.9	657.2	642.5	625.5	617.9	613.5	609.5	607.2	605.9	604.1
25°	663.0	646.9	629.5	616.1	602.8	597.0	594.3	592.1	590.3	588.1	587.6
27.5°	638.9	621.1	606.3	593.4	583.6	578.7	575.6	574.2	574.2	575.1	575.6
30°	611.2	595.2	583.6	572.9	564.0	559.5	559.1	559.1	560.9	561.3	562.2
32.5°	585.8	573.3	561.8	551.5	545.3	542.6	544.8	544.8	546.2	547.5	549.3
35°	561.3	549.7	540.8	531.9	526.1	527.4	528.3	529.2	531.4	534.1	535.9
37.5°	538.1	527.4	518.1	510.9	507.4	510.0	512.3	514.1	516.7	519.0	520.7
40°	512.7	505.1	496.2	490.0	490.9	492.2	494.0	496.2	498.4	499.8	501.6
42.5°	489.1	481.1	474.8	469.9	471.2	473.0	473.9	474.8	477.5	480.2	481.1
45°	465.0	458.8	452.5	449.4	450.3	451.2	452.1	453.4	455.6	457.4	457.9
47.5°	437.8	433.4	429.3	425.8	427.6	427.1	428.4	431.1	432.0	432.9	435.6
50°	412.0	407.9	403.0	402.1	402.1	402.1	402.6	406.2	406.2	407.9	409.7
52.5°	383.4	381.2	378.5	376.7	375.8	375.8	378.1	379.4	380.3	383.0	384.8
55°	355.3	352.7	350.0	348.6	347.8	348.6	352.2	353.1	355.3	356.7	358.0
57.5°	325.9	324.1	321.9	321.0	321.0	321.4	324.1	326.4	326.8	331.3	333.0
60°	296.9	293.8	292.0	292.0	291.1	295.1	294.3	298.7	299.6	302.3	305.4
62.5°	267.1	262.6	262.2	262.2	263.9	264.4	266.2	267.5	270.2	273.7	276.0
65°	234.5	232.3	235.4	235.0	234.1	236.7	236.7	239.0	241.6	244.8	249.7
67.5°	204.2	202.4	203.3	202.9	204.2	206.0	207.3	209.1	212.2	215.8	218.9
70°	173.4	174.8	172.5	174.3	175.7	176.1	177.0	179.7	183.2	185.5	189.0
72.5°	143.6	143.1	144.0	144.5	145.8	146.7	147.6	150.7	154.7	156.5	159.2
75°	115.0	114.6	115.9	115.9	118.1	119.0	119.9	121.3	124.8	127.5	129.7
77.5°	89.2	89.6	89.2	91.0	90.1	90.5	93.2	94.5	95.0	100.8	101.7
80°	63.3	64.2	64.6	65.1	65.5	64.6	67.8	69.1	69.1	72.2	74.5
82.5°	41.0	41.5	42.8	43.2	43.2	44.6	44.1	45.0	46.4	47.3	50.4
85°	22.7	24.1	24.5	24.1	24.5	23.6	25.0	25.4	25.9	25.9	25.9
87.5°	8.9	9.4	8.9	9.4	8.9	9.4	9.4	8.5	8.5	9.8	8.0
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: P242488

CATALOG NUMBER: S123DRP-S775D940-X4F0-XX-UDD-A-W

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	920.2	920.2	920.2	920.2
2.5°	869.8	869.4	872.5	870.3
5°	819.0	820.3	815.9	815.9
7.5°	773.1	771.3	771.7	768.6
10°	731.6	728.9	728.1	728.5
12.5°	697.3	697.3	690.2	690.2
15°	671.9	663.4	662.5	665.2
17.5°	643.8	638.9	639.3	638.4
20°	622.4	619.7	619.3	616.1
22.5°	602.8	602.3	602.8	599.2
25°	587.2	589.4	587.6	587.6
27.5°	576.5	576.5	575.1	575.1
30°	564.0	563.5	564.4	564.4
32.5°	551.5	552.4	552.4	552.8
35°	538.6	539.0	540.4	539.5
37.5°	521.6	523.9	523.4	524.3
40°	502.0	503.4	502.9	502.9
42.5°	482.0	482.8	481.5	480.6
45°	459.7	458.8	460.1	458.3
47.5°	435.1	435.6	436.0	437.8
50°	410.6	413.3	413.3	412.8
52.5°	386.5	387.4	389.7	389.7
55°	361.6	362.5	363.4	363.8
57.5°	336.2	335.7	337.5	337.9
60°	309.0	309.0	312.5	313.9
62.5°	280.0	281.8	285.3	282.7
65°	251.9	255.5	255.0	256.8
67.5°	222.5	224.7	228.3	228.3
70°	192.6	194.8	196.6	198.0
72.5°	163.6	164.5	169.4	166.7
75°	132.9	136.0	138.7	137.3
77.5°	103.4	107.4	108.3	107.0
80°	77.6	77.1	79.8	79.4
82.5°	51.7	51.3	52.2	52.6
85°	27.6	29.0	27.2	26.8
87.5°	8.0	8.0	7.6	7.1
90°	0.0	0.0	0.0	0.0

TEST NUMBER: P242488

CATALOG NUMBER: S123DRP-S775D940-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	18.76	20.32	19.13	20.63	20.95	19.32	20.87	19.68	21.19	21.50
	3H	20.31	21.71	20.69	22.04	22.40	20.65	22.05	21.03	22.38	22.74
	4H	20.88	22.19	21.28	22.54	22.92	21.11	22.42	21.51	22.77	23.15
	6H	21.28	22.49	21.69	22.86	23.25	21.40	22.62	21.82	22.98	23.38
	8H	21.39	22.55	21.81	22.93	23.34	21.48	22.63	21.90	23.02	23.42
	12H	21.46	22.56	21.89	22.95	23.38	21.51	22.62	21.94	23.00	23.43
4H	2H	19.92	21.23	20.32	21.58	21.96	20.08	21.39	20.48	21.74	22.12
	3H	21.51	22.60	21.92	23.00	23.40	21.89	22.98	22.30	23.38	23.78
	4H	22.13	23.12	22.56	23.53	23.97	22.45	23.44	22.88	23.85	24.29
	6H	22.60	23.46	23.06	23.90	24.36	22.82	23.67	23.27	24.12	24.57
	8H	22.74	23.54	23.20	23.99	24.45	22.91	23.71	23.37	24.15	24.62
	12H	22.84	23.55	23.32	24.03	24.50	22.96	23.68	23.44	24.15	24.62
8H	4H	22.62	23.42	23.08	23.86	24.33	22.76	23.56	23.22	24.00	24.47
	6H	23.17	23.83	23.66	24.32	24.80	23.27	23.93	23.76	24.42	24.90
	8H	23.35	23.95	23.86	24.46	24.94	23.41	24.01	23.92	24.52	25.00
	12H	23.50	24.02	24.00	24.51	25.08	23.51	24.03	24.02	24.53	25.09
12H	4H	22.67	23.39	23.15	23.86	24.33	22.77	23.49	23.25	23.96	24.43
	6H	23.24	23.84	23.75	24.35	24.83	23.30	23.90	23.81	24.40	24.89
	8H	23.48	24.00	23.99	24.50	25.06	23.50	24.03	24.01	24.52	25.09