

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: P243663

Luminaire Tested: S125DRP-H1090D927-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P243663
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-61)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DRP-H1090D927-X4F0-XX-UDD-A-W
Description: DEFINE 5 DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

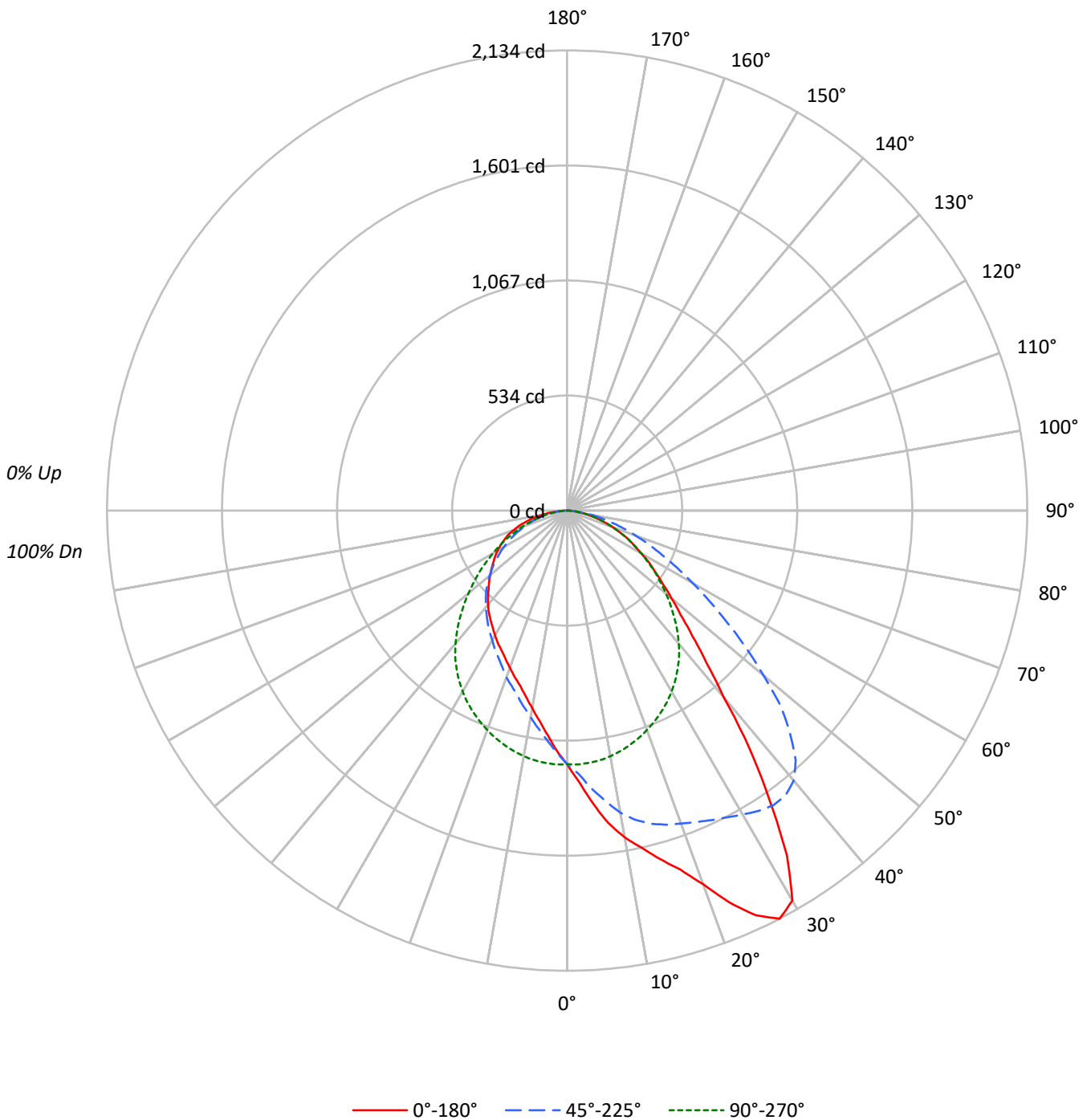
Lumens per Lamp: N/A
Luminaire Lumens: 3351.8 lumens
Efficiency: N/A
Efficacy: 106.4 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.22 / 1.53
Luminous Opening: Rectangular (W 3.88' x L: 0.39' x H: 0')
CIE Type: Direct

Input Watts (W): 31.5
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	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	99	96	93	95	92	90	91	89	87					85				
2	100	92	86	80	97	90	84	79	87	82	78	84	79	76	81	77	74					72				
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	63					61				
4	84	73	64	58	82	71	63	57	69	62	56	66	61	56	64	59	55					53				
5	78	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48					46				
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43					40				
7	67	53	45	39	65	53	44	39	51	44	38	50	43	38	48	42	38					36				
8	62	49	40	35	60	48	40	35	47	40	34	46	39	34	44	38	34					32				
9	58	45	37	31	57	44	36	31	43	36	31	42	36	31	41	35	31					29				
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28					26				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	8359	8359	8359	8359	8359
5°	9711	9221	8377	7622	7445
10°	11111	10267	8350	7018	6718
15°	12317	11061	8275	6544	6190
20°	13945	11683	8192	6226	5872
25°	16239	12420	8086	5905	5625
30°	17143	13358	7953	5706	5487
35°	14176	14471	7758	5562	5371
40°	10487	15169	7478	5442	5292
45°	8245	14697	7070	5335	5177
50°	6981	13125	6613	5189	5157
55°	6217	11246	6157	5023	5177
60°	5640	9531	5653	4820	5288
65°	5229	8148	5181	4571	5437
70°	4698	6968	4638	4270	5472
75°	4007	5893	4072	3902	5396
80°	3278	4764	3340	3397	5034
85°	2259	3343	2373	2683	4281

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 14697 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.6	3.4
10°-20°	339.5	10.1
20°-30°	551.9	16.5
30°-40°	671.5	20.0
40°-50°	614.4	18.3
50°-60°	491.7	14.7
60°-70°	342.5	10.2
70°-80°	182.0	5.4
80°-90°	44.7	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°	1005.0	30.0
0°-40°	1676.5	50.0
0°-60°	2782.7	83.0
0°-90°	3351.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3351.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1176	1176	1176	1176	1176	
5°	1361	1292	1174	1068	1044	135
15°	1674	1503	1125	889	841	480
25°	2071	1584	1031	753	717	945
35°	1634	1668	894	641	619	1013
45°	820	1462	703	531	515	647
55°	502	908	497	405	418	453
65°	311	484	308	272	323	306
75°	146	215	148	142	196	158
85°	28	41	29	33	52	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°	1176.1	1176.1	1176.1	1176.1	1176.1	1176.1	1176.1	1176.1	1176.1	1176.1	1176.1
2.5°	1259.1	1253.8	1252.4	1252.9	1250.0	1247.6	1241.9	1234.3	1229.0	1222.3	1220.4
5°	1361.1	1348.2	1350.6	1346.8	1340.6	1332.5	1325.3	1313.9	1302.9	1292.4	1278.6
7.5°	1461.3	1458.9	1452.2	1451.2	1441.2	1427.4	1413.1	1397.4	1374.0	1357.8	1339.2
10°	1539.5	1544.2	1534.7	1535.2	1517.5	1503.7	1491.3	1470.8	1444.6	1422.6	1395.5
12.5°	1602.4	1604.3	1602.9	1596.7	1585.3	1561.9	1550.0	1528.5	1499.9	1469.8	1448.9
15°	1674.0	1668.7	1660.6	1653.0	1636.3	1619.6	1594.8	1569.5	1533.3	1503.2	1472.7
17.5°	1745.5	1744.6	1734.5	1718.3	1697.3	1675.4	1638.2	1605.8	1567.1	1527.6	1489.4
20°	1843.7	1838.5	1823.7	1805.1	1766.5	1735.5	1689.2	1644.9	1594.3	1544.7	1500.4
22.5°	1966.8	1949.6	1934.8	1906.2	1861.9	1808.0	1756.0	1691.6	1621.0	1562.8	1507.5
25°	2070.8	2063.1	2047.4	2015.4	1964.9	1900.0	1822.8	1749.8	1661.1	1583.8	1511.8
27.5°	2133.7	2130.4	2120.8	2090.8	2048.8	1984.4	1901.9	1808.9	1708.3	1603.9	1517.5
30°	2088.9	2089.4	2094.6	2091.3	2072.7	2031.2	1957.7	1864.3	1747.9	1627.7	1519.0
32.5°	1896.2	1909.1	1950.1	1969.7	1995.9	2004.5	1971.6	1893.8	1781.3	1651.6	1523.7
35°	1633.9	1665.4	1693.0	1750.3	1818.5	1874.3	1906.7	1881.4	1795.1	1667.8	1526.1
37.5°	1386.9	1384.5	1427.4	1489.4	1561.9	1656.8	1748.8	1799.4	1771.3	1664.4	1521.8
40°	1130.3	1152.2	1178.9	1233.8	1318.7	1435.5	1545.2	1653.5	1692.6	1634.9	1505.1
42.5°	954.8	964.8	991.5	1034.4	1095.5	1214.7	1323.0	1462.2	1562.4	1569.0	1468.4
45°	820.3	831.3	838.9	881.3	938.1	1018.2	1129.3	1269.5	1404.0	1462.2	1408.8
47.5°	712.5	718.7	735.4	761.2	798.4	869.4	958.1	1085.5	1231.9	1344.9	1326.8
50°	631.4	636.2	649.6	663.9	694.4	746.8	818.4	922.8	1063.5	1187.0	1227.6
52.5°	559.9	566.1	572.8	586.6	614.7	650.0	708.2	789.8	920.4	1046.8	1111.2
55°	501.7	504.1	511.3	521.7	543.2	569.9	616.2	690.1	781.7	907.6	996.3
57.5°	451.2	448.8	456.4	463.6	477.9	500.3	533.7	588.5	675.8	783.1	875.6
60°	396.8	399.2	404.9	410.6	420.6	440.2	466.4	510.3	574.2	670.5	765.0
62.5°	350.1	352.0	353.4	361.5	370.6	384.4	405.9	441.6	494.6	574.2	658.6
65°	310.9	307.6	309.5	315.2	322.4	333.8	353.9	380.1	419.7	484.5	554.7
67.5°	265.2	266.1	266.6	269.9	276.1	287.1	301.4	322.9	355.3	406.3	467.9
70°	226.1	226.5	227.0	229.9	235.1	241.3	251.3	268.0	295.7	335.3	383.4
72.5°	186.0	187.9	187.9	190.3	194.1	197.4	207.0	220.8	241.8	273.3	313.8
75°	145.9	149.3	150.2	153.1	156.4	157.4	164.5	175.5	188.9	214.6	246.6
77.5°	113.5	113.5	115.4	118.8	118.8	121.6	129.2	134.0	144.5	162.2	186.5
80°	80.1	81.6	81.6	82.5	84.4	86.8	90.1	94.4	103.5	116.4	129.2
82.5°	52.5	52.9	53.4	55.8	54.8	57.2	58.7	63.9	68.2	74.4	82.5
85°	27.7	27.7	28.1	29.6	31.0	31.5	32.4	34.8	38.2	41.0	45.8
87.5°	11.4	11.0	11.0	11.9	11.9	12.4	12.9	13.8	15.7	15.7	17.6
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°	1176.1	1176.1	1176.1	1176.1	1176.1	1176.1	1176.1	1176.1	1176.1	1176.1	1176.1
2.5°	1219.0	1215.2	1208.5	1202.8	1195.6	1190.4	1185.1	1178.5	1171.8	1164.6	1157.0
5°	1267.6	1256.2	1243.3	1230.4	1215.2	1202.8	1189.4	1174.2	1161.3	1147.0	1131.7
7.5°	1323.4	1303.4	1281.0	1255.7	1231.9	1210.4	1188.5	1167.5	1148.4	1126.9	1106.0
10°	1377.3	1342.5	1314.4	1280.0	1246.2	1214.7	1184.7	1157.0	1129.3	1102.6	1076.9
12.5°	1414.0	1374.5	1339.2	1299.6	1260.0	1220.4	1180.8	1142.7	1109.8	1077.3	1050.2
15°	1439.3	1411.7	1364.9	1317.2	1265.3	1213.7	1168.9	1124.6	1085.5	1047.8	1015.3
17.5°	1455.1	1419.3	1373.5	1323.4	1266.2	1212.3	1158.4	1105.5	1060.7	1020.1	983.4
20°	1459.4	1417.4	1369.7	1317.7	1260.5	1201.3	1140.8	1083.1	1034.4	988.2	951.0
22.5°	1455.1	1406.4	1355.4	1304.8	1244.7	1184.7	1121.2	1058.3	1002.5	954.8	915.7
25°	1447.9	1389.3	1335.8	1276.2	1220.4	1163.2	1097.9	1031.1	972.9	923.3	879.4
27.5°	1438.8	1371.6	1305.8	1247.1	1186.6	1130.3	1070.2	1002.0	941.4	887.1	846.0
30°	1428.4	1348.2	1275.3	1205.6	1148.4	1092.1	1033.5	969.1	908.0	856.1	811.7
32.5°	1416.4	1323.4	1237.6	1162.7	1101.7	1049.7	994.8	933.3	873.2	817.4	778.8
35°	1399.7	1289.6	1197.1	1116.0	1052.5	996.3	948.1	894.2	834.6	782.6	742.6
37.5°	1380.2	1259.5	1156.0	1068.3	999.1	941.4	897.1	853.2	797.4	747.3	708.7
40°	1354.0	1223.3	1112.6	1017.7	943.8	887.1	843.7	806.0	759.7	709.2	674.4
42.5°	1319.6	1183.2	1063.5	962.4	890.9	830.3	789.8	755.4	715.8	672.0	637.6
45°	1280.5	1137.4	1008.7	909.5	831.7	774.0	734.4	703.4	673.4	634.3	602.3
47.5°	1219.5	1083.5	959.1	849.4	773.1	717.3	680.1	650.5	628.1	597.1	565.6
50°	1147.0	1022.5	900.4	790.2	713.0	659.1	623.8	598.1	579.0	555.1	531.3
52.5°	1067.3	953.8	836.0	733.0	655.8	604.7	567.5	544.6	532.2	513.2	494.6
55°	974.3	876.6	766.9	672.9	597.1	545.1	513.2	496.9	483.1	473.6	456.9
57.5°	880.9	798.4	700.6	607.6	538.0	491.7	463.1	445.0	434.9	428.3	416.3
60°	778.8	713.9	624.3	543.7	481.7	437.8	412.5	397.7	388.7	384.9	376.8
62.5°	681.5	631.9	550.4	483.1	427.8	389.2	363.9	352.0	346.2	341.9	337.2
65°	585.7	546.5	482.2	419.2	372.5	337.7	317.6	308.1	303.8	299.0	298.5
67.5°	499.3	463.6	412.1	360.5	321.4	291.9	274.2	264.7	259.9	260.4	258.0
70°	414.4	386.8	344.8	302.8	269.5	246.1	229.4	223.2	221.3	220.8	218.9
72.5°	335.3	319.5	282.8	247.5	221.3	203.2	189.8	184.6	182.2	181.2	181.2
75°	265.6	254.2	222.7	196.0	176.0	161.2	152.1	148.3	145.0	146.9	145.5
77.5°	199.4	189.8	168.4	149.3	134.0	121.6	117.3	114.0	112.1	111.6	113.5
80°	140.2	134.5	121.1	105.9	94.4	87.3	84.4	81.6	80.1	79.2	80.1
82.5°	90.1	86.8	77.3	68.2	61.5	57.7	54.8	53.4	51.0	51.5	52.5
85°	49.1	48.2	42.0	39.1	32.9	32.4	30.5	29.1	29.6	28.6	30.0
87.5°	20.0	19.1	17.6	16.2	14.3	12.9	11.9	12.9	11.4	12.9	12.4
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°	1176.1	1176.1	1176.1	1176.1	1176.1	1176.1	1176.1	1176.1	1176.1	1176.1	1176.1
2.5°	1153.2	1147.9	1141.7	1136.0	1127.4	1121.7	1118.8	1119.8	1116.5	1115.5	1115.0
5°	1122.7	1110.7	1099.3	1089.7	1079.7	1068.3	1060.2	1057.8	1056.8	1054.5	1049.2
7.5°	1091.2	1075.9	1061.1	1047.3	1033.0	1019.6	1011.5	1004.9	1001.0	994.4	992.9
10°	1057.8	1039.2	1023.5	1003.4	986.3	972.4	961.9	956.2	952.9	946.7	941.4
12.5°	1025.8	1006.3	982.0	963.8	945.7	931.4	919.5	910.0	907.6	899.5	895.2
15°	991.5	967.7	945.7	924.7	907.6	889.4	882.3	873.7	865.1	858.0	856.5
17.5°	958.6	930.0	908.5	888.0	867.0	853.7	844.1	838.4	831.7	827.9	821.2
20°	919.0	895.6	871.8	852.7	834.6	823.2	810.3	805.0	800.3	791.2	788.3
22.5°	885.6	857.5	837.5	818.4	802.2	786.0	776.9	771.6	764.5	759.7	755.9
25°	850.8	827.4	802.2	783.1	769.3	753.0	746.8	740.2	734.0	729.7	725.9
27.5°	817.0	791.2	770.7	751.6	737.3	725.9	717.3	710.1	705.8	702.5	700.1
30°	781.7	757.8	738.7	721.1	704.9	695.3	687.2	684.4	679.6	677.2	673.4
32.5°	749.7	725.4	707.3	692.0	677.7	668.2	663.4	659.1	654.3	650.0	649.6
35°	713.5	692.5	675.8	659.1	648.6	641.0	635.7	631.4	627.6	624.3	622.4
37.5°	681.5	661.5	642.9	631.0	619.5	612.8	607.1	605.7	601.9	602.3	599.5
40°	647.2	629.0	613.3	601.4	593.8	586.6	582.8	578.0	575.6	576.1	573.7
42.5°	613.8	597.1	582.8	571.8	563.7	558.5	555.1	551.3	548.5	546.5	546.1
45°	579.9	565.1	553.2	542.3	535.6	530.8	526.5	521.7	519.4	518.4	517.9
47.5°	546.5	533.2	520.3	512.7	506.5	502.2	497.9	494.1	492.2	490.7	488.4
50°	512.2	498.9	489.8	480.3	475.0	469.3	464.5	462.6	460.2	459.7	462.1
52.5°	476.4	465.9	457.8	450.2	444.0	437.8	433.0	430.7	432.1	432.1	434.9
55°	442.6	431.6	424.0	417.8	411.1	405.4	400.6	400.6	400.6	403.5	407.3
57.5°	404.9	395.4	389.6	382.5	376.3	372.5	369.1	368.7	370.6	375.3	379.6
60°	366.7	360.1	353.9	348.1	341.9	339.1	338.6	337.7	340.5	345.3	354.3
62.5°	329.1	324.8	317.1	314.3	309.0	305.7	305.7	306.7	310.9	318.6	326.7
65°	292.8	286.6	280.9	278.0	274.7	271.8	271.8	275.7	281.9	289.0	299.0
67.5°	255.6	250.4	246.6	243.7	239.9	238.5	239.9	244.2	251.8	259.0	269.5
70°	215.6	214.6	211.3	207.5	205.5	205.5	207.0	211.7	217.5	228.4	237.5
72.5°	178.8	178.8	176.9	174.6	173.1	174.6	175.5	180.3	187.4	197.0	207.0
75°	145.5	144.0	142.6	141.6	141.2	142.1	143.6	147.4	156.0	165.0	173.1
77.5°	112.6	111.6	110.2	111.1	111.1	111.6	115.9	120.2	125.0	132.1	140.7
80°	81.1	81.6	80.1	79.6	82.0	83.0	86.3	89.7	93.0	101.1	107.3
82.5°	53.4	54.4	53.9	54.8	55.8	55.8	59.6	63.0	65.8	71.5	76.3
85°	30.5	31.0	31.0	32.4	33.4	32.9	36.2	38.2	39.6	43.9	46.7
87.5°	13.4	13.8	14.3	14.3	14.3	16.2	16.7	17.6	18.1	19.1	20.5
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: P243663

CATALOG NUMBER: S125DRP-H1090D927-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1176.1	1176.1	1176.1	1176.1
2.5°	1110.7	1110.3	1112.6	1114.1
5°	1045.9	1044.4	1042.5	1043.5
7.5°	988.2	984.4	983.4	983.4
10°	937.1	933.3	932.4	930.9
12.5°	893.7	888.0	885.6	883.2
15°	852.7	851.8	846.5	841.3
17.5°	815.0	816.5	811.2	808.8
20°	783.6	779.3	777.4	776.4
22.5°	751.6	748.3	748.3	744.9
25°	723.0	720.1	720.6	717.3
27.5°	696.3	695.8	695.3	694.4
30°	671.5	669.6	667.7	668.6
32.5°	647.6	644.8	643.4	642.9
35°	622.8	621.9	620.0	619.0
37.5°	598.5	599.0	596.6	596.1
40°	572.3	571.8	571.3	570.4
42.5°	544.6	543.2	544.2	543.7
45°	517.0	515.5	516.5	515.1
47.5°	489.8	490.7	490.7	491.2
50°	463.1	465.0	465.0	466.4
52.5°	438.3	442.1	442.1	441.6
55°	411.6	415.9	417.3	417.8
57.5°	386.3	390.6	394.9	395.8
60°	359.1	366.7	371.0	372.0
62.5°	334.8	341.9	347.7	348.1
65°	307.6	316.2	321.4	323.3
67.5°	279.9	286.6	293.8	296.6
70°	248.5	256.6	261.3	263.3
72.5°	215.6	224.6	230.8	231.8
75°	184.1	190.8	195.5	196.5
77.5°	148.3	155.0	159.3	160.2
80°	112.6	118.3	121.1	123.0
82.5°	79.6	83.5	84.9	86.8
85°	49.1	52.0	52.5	52.5
87.5°	21.5	21.9	21.9	22.9
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P243663
 CATALOG NUMBER: S125DRP-H1090D927-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	18.21	19.78	18.58	20.10	20.41	17.96	19.53	18.32	19.84	20.15
	3H	19.57	20.98	19.95	21.31	21.67	19.38	20.79	19.76	21.12	21.48
	4H	20.05	21.37	20.45	21.72	22.10	19.87	21.19	20.27	21.54	21.92
	6H	20.35	21.58	20.77	21.95	22.34	20.18	21.41	20.59	21.78	22.17
	8H	20.43	21.60	20.86	21.99	22.39	20.26	21.43	20.69	21.82	22.22
	12H	20.46	21.59	20.89	21.97	22.40	20.30	21.42	20.73	21.80	22.23
4H	2H	19.60	20.93	20.00	21.28	21.65	19.02	20.34	19.42	20.69	21.07
	3H	20.96	22.07	21.37	22.46	22.87	20.67	21.78	21.08	22.18	22.58
	4H	21.46	22.46	21.90	22.87	23.31	21.23	22.23	21.67	22.65	23.08
	6H	21.82	22.69	22.27	23.13	23.58	21.61	22.48	22.07	22.92	23.38
	8H	21.91	22.72	22.37	23.16	23.63	21.71	22.52	22.17	22.96	23.43
	12H	21.96	22.68	22.44	23.16	23.63	21.76	22.49	22.24	22.97	23.44
8H	4H	21.92	22.73	22.38	23.17	23.64	21.59	22.40	22.05	22.84	23.31
	6H	22.35	23.02	22.84	23.51	23.99	22.09	22.76	22.58	23.25	23.73
	8H	22.48	23.08	22.99	23.59	24.07	22.24	22.84	22.75	23.35	23.83
	12H	22.56	23.10	23.07	23.59	24.15	22.33	22.87	22.84	23.36	23.92
12H	4H	21.96	22.69	22.44	23.16	23.63	21.61	22.33	22.09	22.81	23.28
	6H	22.42	23.02	22.93	23.53	24.02	22.14	22.74	22.65	23.25	23.74
	8H	22.59	23.13	23.10	23.62	24.18	22.34	22.87	22.85	23.37	23.93