

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: P242828

Luminaire Tested: S125DRP-S1090D935-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P242828
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DRP-S1090D935-X4F0-XX-UDD-A-W
Description: DEFINE 5 DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

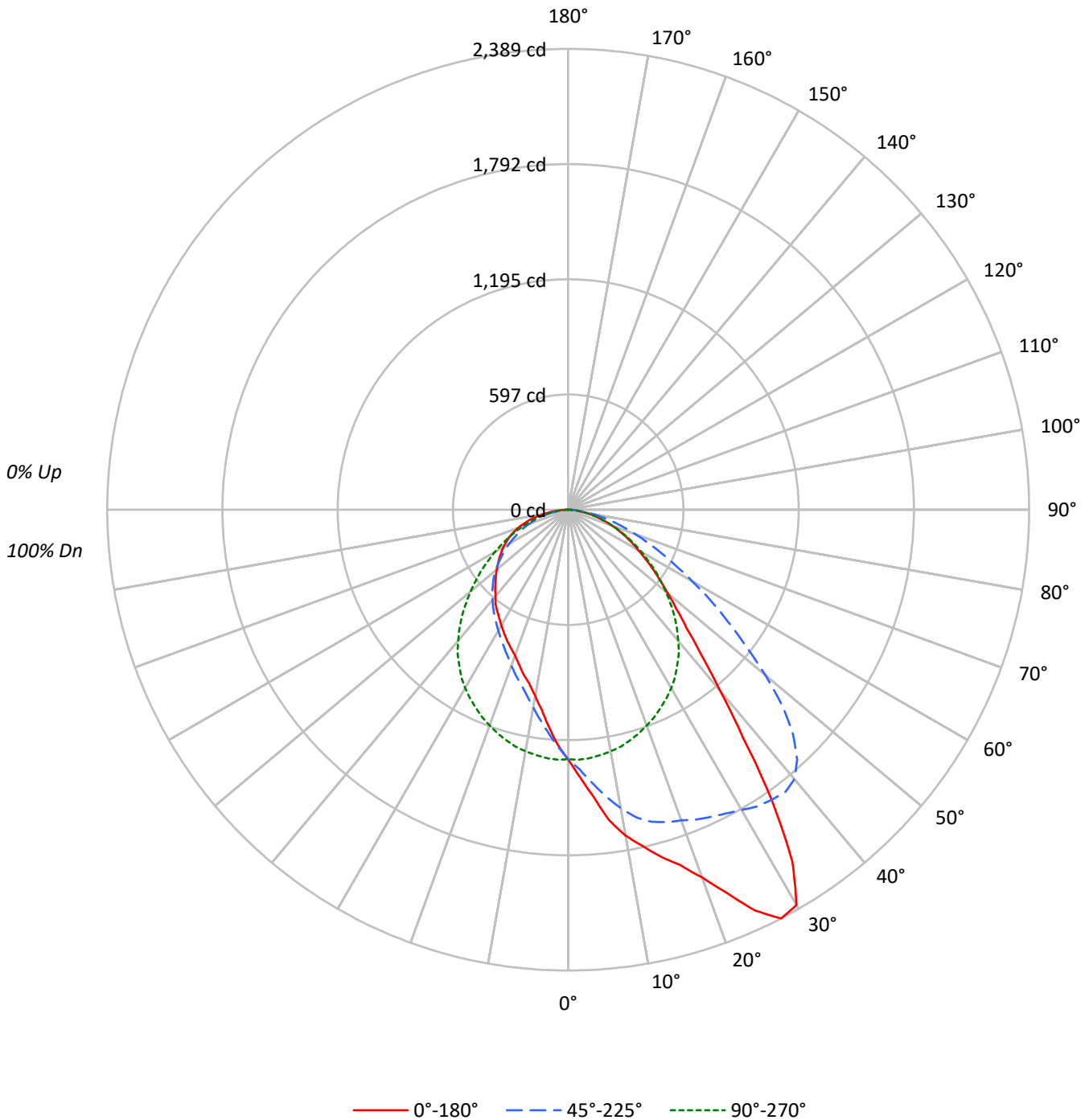
Lumens per Lamp: N/A
Luminaire Lumens: 3649.9 lumens
Efficiency: N/A
Efficacy: 104.9 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.23 / 1.53
Luminous Opening: Rectangular (W 3.88' x L: 0.39' x H: 0')
CIE Type: Direct

Input Watts (W): 34.8
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: P242828

CATALOG NUMBER: S125DRP-S1090D935-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	99	96	93	95	92	90	91	89	87	85					85			
2	100	92	86	80	98	90	84	79	87	82	78	84	80	76	81	77	74	72					72			
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	61					61			
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	53					53			
5	78	65	56	50	76	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	39	50	43	38	48	42	38	36					36			
8	62	49	41	35	61	48	40	35	47	40	34	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	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	9193	9193	9193	9193	9193
5°	10645	10140	9223	8295	8076
10°	12385	11339	9176	7516	7076
15°	13710	12324	9109	6907	6527
20°	15346	12963	9002	6506	6087
25°	17978	13771	8881	6169	5872
30°	19418	14750	8762	5943	5686
35°	15966	15933	8540	5787	5563
40°	11348	16920	8230	5659	5429
45°	8718	16560	7813	5545	5352
50°	7441	14731	7297	5408	5342
55°	6626	12510	6789	5211	5388
60°	5977	10566	6235	5025	5525
65°	5521	9001	5678	4773	5669
70°	5018	7656	5100	4449	5750
75°	4432	6544	4493	4100	5698
80°	3729	5370	3663	3483	5214
85°	2952	3898	2642	2862	4208

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 16560 cd/sqm



TEST NUMBER: P242828

CATALOG NUMBER: S125DRP-S1090D935-X4F0-XX-UDD-A-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.5	3.4
10°-20°	370.8	10.2
20°-30°	602.3	16.5
30°-40°	736.0	20.2
40°-50°	667.8	18.3
50°-60°	531.8	14.6
60°-70°	370.4	10.1
70°-80°	197.3	5.4
80°-90°	48.9	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°	1097.5	30.1
0°-40°	1833.6	50.2
0°-60°	3033.2	83.1
0°-90°	3649.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3649.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1293	1293	1293	1293	1293	
5°	1492	1421	1293	1163	1132	150
15°	1863	1675	1238	939	887	533
25°	2292	1756	1132	787	749	1050
35°	1840	1836	984	667	641	1129
45°	867	1648	777	552	532	690
55°	535	1010	548	420	435	481
65°	328	535	338	284	337	326
75°	161	238	164	149	208	174
85°	36	48	32	35	52	42
90°	0	0	0	0	0	



TEST NUMBER: P242828

CATALOG NUMBER: S125DRP-S1090D935-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1293.4	1293.4	1293.4	1293.4	1293.4	1293.4	1293.4	1293.4	1293.4	1293.4	1293.4
2.5°	1386.7	1384.5	1382.3	1377.9	1381.2	1371.9	1367.5	1359.8	1350.5	1347.2	1343.3
5°	1492.1	1494.8	1497.6	1486.1	1487.2	1479.5	1461.9	1447.6	1436.1	1421.3	1410.8
7.5°	1622.7	1614.5	1615.1	1607.9	1595.3	1584.9	1567.9	1544.2	1522.8	1498.7	1477.8
10°	1716.1	1716.6	1711.7	1702.9	1689.2	1679.3	1655.1	1632.1	1604.1	1571.1	1547.5
12.5°	1786.3	1789.1	1782.5	1769.9	1764.9	1739.7	1722.1	1693.6	1659.0	1634.3	1595.3
15°	1863.2	1857.2	1852.8	1837.9	1826.4	1803.4	1773.2	1744.6	1708.4	1674.9	1641.4
17.5°	1931.3	1936.2	1929.1	1918.1	1884.1	1857.2	1819.8	1783.6	1740.2	1698.5	1659.5
20°	2029.0	2033.4	2020.8	1997.1	1954.3	1927.4	1874.2	1823.7	1771.5	1713.9	1670.0
22.5°	2150.9	2145.4	2127.3	2088.3	2052.6	1997.1	1938.4	1874.2	1805.6	1738.6	1676.5
25°	2292.5	2269.4	2259.0	2214.5	2165.7	2092.7	2013.6	1923.6	1842.3	1756.1	1681.5
27.5°	2389.1	2379.8	2365.0	2328.7	2272.7	2189.8	2096.5	1988.9	1879.7	1774.3	1680.4
30°	2366.1	2367.1	2368.2	2358.4	2325.4	2266.7	2173.9	2055.9	1919.7	1797.3	1684.2
32.5°	2161.8	2186.5	2210.1	2240.9	2260.6	2261.2	2211.8	2108.0	1967.0	1823.7	1682.0
35°	1840.1	1846.2	1908.2	1969.7	2053.1	2117.9	2161.3	2114.1	1996.0	1836.3	1680.4
37.5°	1487.7	1517.9	1564.6	1633.7	1758.9	1861.0	1994.9	2041.1	1985.6	1846.7	1679.8
40°	1223.1	1250.5	1278.5	1349.4	1450.9	1581.6	1739.1	1873.6	1904.9	1823.7	1663.4
42.5°	1018.9	1039.2	1071.0	1119.9	1200.6	1312.6	1461.4	1647.5	1774.8	1756.7	1628.8
45°	867.4	881.1	905.2	947.5	1009.0	1099.6	1232.4	1424.6	1592.0	1647.5	1570.0
47.5°	759.8	760.3	780.1	810.3	856.9	940.4	1039.7	1197.8	1378.5	1506.4	1488.3
50°	673.0	670.3	685.1	710.4	745.5	796.6	890.4	1010.6	1182.5	1332.3	1374.1
52.5°	598.4	599.5	607.2	624.2	652.2	693.9	758.1	863.5	1004.1	1158.9	1246.7
55°	534.7	532.5	542.9	555.6	577.0	605.5	656.0	738.9	858.0	1009.6	1111.7
57.5°	473.2	479.2	483.6	492.4	511.1	530.9	575.9	639.5	737.8	872.3	980.5
60°	420.5	426.5	429.8	438.6	452.9	469.4	502.3	551.7	631.3	743.3	850.4
62.5°	373.3	377.7	378.2	385.9	396.9	412.8	437.0	476.5	535.2	629.7	734.0
65°	328.3	328.3	330.5	338.7	344.2	358.5	378.2	408.4	458.9	535.2	624.7
67.5°	284.4	287.1	286.6	290.4	295.3	307.4	322.2	347.5	387.6	445.2	519.3
70°	241.5	243.7	243.2	245.9	251.4	258.6	270.1	293.7	320.6	368.4	429.8
72.5°	203.1	203.7	202.0	205.9	208.6	214.6	227.8	237.7	262.4	300.8	348.6
75°	161.4	162.5	163.6	165.8	169.1	172.4	179.0	191.6	208.1	238.3	270.6
77.5°	128.5	125.7	129.0	128.5	130.1	132.9	138.9	146.0	160.3	180.6	207.5
80°	91.1	91.7	91.7	92.2	95.0	96.6	101.6	106.5	116.9	131.2	148.8
82.5°	60.4	62.0	60.9	62.0	64.2	65.3	67.5	71.4	76.3	86.7	98.3
85°	36.2	33.5	34.6	35.7	35.7	36.2	38.4	40.1	43.4	47.8	52.7
87.5°	13.2	14.3	14.8	14.8	15.4	15.4	17.6	17.6	19.2	20.9	23.1
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: P242828

CATALOG NUMBER: S125DRP-S1090D935-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1293.4	1293.4	1293.4	1293.4	1293.4	1293.4	1293.4	1293.4	1293.4	1293.4	1293.4
2.5°	1340.0	1336.2	1331.8	1324.1	1314.8	1309.8	1302.2	1297.2	1287.3	1279.1	1270.3
5°	1398.2	1383.9	1370.8	1353.8	1335.1	1323.0	1308.7	1292.8	1276.4	1259.3	1240.7
7.5°	1456.4	1432.8	1407.0	1380.1	1353.8	1329.1	1306.0	1282.4	1261.0	1234.1	1211.6
10°	1515.2	1483.3	1449.3	1409.2	1370.2	1336.2	1301.6	1271.4	1240.7	1207.7	1178.6
12.5°	1573.9	1528.9	1477.3	1432.3	1383.4	1340.6	1298.3	1257.7	1217.1	1179.7	1144.6
15°	1595.3	1558.0	1513.5	1450.9	1398.2	1341.7	1287.9	1237.9	1191.3	1150.6	1107.8
17.5°	1616.2	1568.4	1521.2	1460.8	1392.2	1331.2	1270.3	1216.0	1164.4	1113.3	1074.3
20°	1621.1	1571.7	1521.7	1463.0	1392.2	1319.7	1258.8	1190.2	1133.6	1080.4	1029.9
22.5°	1619.5	1561.8	1506.4	1445.4	1376.8	1311.5	1234.6	1164.4	1101.8	1049.6	996.4
25°	1607.4	1547.5	1479.5	1418.5	1350.5	1279.6	1205.0	1132.5	1069.9	1010.1	957.9
27.5°	1600.2	1524.5	1449.8	1379.6	1314.2	1248.9	1176.4	1101.8	1033.2	972.2	923.9
30°	1584.3	1499.2	1412.5	1338.4	1270.9	1207.7	1140.2	1067.7	995.3	936.0	883.3
32.5°	1570.0	1467.4	1374.6	1292.3	1219.8	1158.9	1097.9	1029.9	959.0	898.7	846.0
35°	1550.8	1436.1	1331.2	1240.1	1163.8	1100.7	1048.5	984.3	919.0	860.8	810.3
37.5°	1528.3	1395.5	1284.6	1189.6	1106.7	1040.8	991.4	941.5	876.2	819.1	774.0
40°	1500.9	1351.6	1232.4	1134.7	1048.0	978.8	933.8	887.1	835.0	782.8	734.5
42.5°	1466.3	1312.0	1179.7	1072.7	987.0	920.1	872.3	834.4	790.0	742.2	698.3
45°	1422.4	1262.6	1122.1	1009.0	922.3	855.8	807.0	777.3	742.8	696.6	658.8
47.5°	1364.2	1206.6	1061.7	944.8	855.3	793.8	747.1	718.0	692.8	656.6	620.9
50°	1281.3	1142.4	995.3	879.4	790.0	727.9	685.7	659.9	639.0	612.6	583.6
52.5°	1188.5	1061.7	930.0	815.8	727.4	666.4	625.3	603.3	586.8	569.8	541.3
55°	1089.2	979.4	854.2	745.5	663.7	603.9	567.6	547.9	533.6	519.3	501.8
57.5°	982.1	893.2	778.4	676.9	601.1	545.1	511.1	490.8	479.2	471.6	460.6
60°	867.9	794.4	698.8	608.3	534.7	486.4	453.4	438.6	429.3	423.3	415.6
62.5°	762.0	704.9	618.1	537.4	475.4	430.4	401.8	387.6	378.8	376.6	370.6
65°	658.2	611.6	538.5	469.9	415.0	376.0	351.3	337.6	332.1	328.8	329.4
67.5°	553.9	523.7	462.8	402.4	357.4	322.8	302.5	292.1	289.3	284.4	284.4
70°	460.0	438.6	389.2	338.2	299.2	273.9	256.4	245.4	242.6	240.4	239.9
72.5°	377.1	359.0	317.9	279.4	245.4	224.0	210.3	204.8	199.8	198.7	198.7
75°	295.9	285.5	251.4	219.0	194.9	179.5	169.6	163.6	160.3	159.7	160.3
77.5°	223.4	213.5	189.9	165.8	149.9	137.8	128.5	126.8	122.4	123.0	121.9
80°	158.1	152.1	138.3	120.2	107.6	97.7	93.3	89.5	88.4	86.7	88.4
82.5°	103.8	97.2	88.9	79.1	69.2	64.2	59.8	59.3	58.7	58.2	58.2
85°	56.5	57.1	51.6	42.8	38.4	35.1	32.4	32.4	31.8	31.3	31.8
87.5°	24.2	23.1	20.9	19.2	16.5	14.8	14.3	14.8	13.2	12.6	13.2
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: P242828

CATALOG NUMBER: S125DRP-S1090D935-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1293.4	1293.4	1293.4	1293.4	1293.4	1293.4	1293.4	1293.4	1293.4	1293.4	1293.4
2.5°	1265.4	1259.3	1254.4	1243.4	1237.4	1229.1	1222.6	1229.7	1222.0	1225.3	1220.4
5°	1231.3	1216.0	1205.0	1189.1	1175.3	1162.7	1153.4	1151.7	1147.3	1145.1	1138.6
7.5°	1190.7	1173.1	1155.0	1135.3	1118.8	1101.2	1090.8	1080.9	1074.9	1067.2	1061.2
10°	1155.6	1129.8	1107.8	1082.6	1060.6	1041.4	1026.0	1018.3	1011.2	1000.8	996.9
12.5°	1112.2	1085.3	1057.3	1029.9	1009.0	987.0	974.4	961.8	957.4	945.3	944.8
15°	1079.3	1039.2	1012.8	985.4	956.3	938.7	927.8	915.1	909.6	901.4	895.4
17.5°	1038.6	1002.4	969.5	941.5	915.1	900.9	886.6	877.8	868.5	862.4	852.5
20°	993.6	959.6	926.7	896.5	877.3	860.2	849.3	841.0	831.1	828.4	818.5
22.5°	955.8	917.3	886.0	861.9	840.5	820.7	808.6	803.7	797.7	787.8	787.8
25°	914.0	875.1	848.2	822.9	804.2	786.7	778.4	771.3	764.7	758.7	756.5
27.5°	878.9	844.3	811.4	788.3	772.4	755.9	748.8	739.5	734.5	729.6	723.0
30°	841.6	805.9	777.9	755.9	738.4	724.1	716.4	710.4	706.0	701.6	698.3
32.5°	803.1	770.8	743.9	722.4	704.9	695.0	688.4	684.6	679.6	674.1	669.7
35°	770.2	734.0	707.6	689.0	675.2	667.0	659.3	655.5	650.0	650.0	645.6
37.5°	731.2	699.4	675.8	658.8	646.7	639.0	630.2	628.0	624.2	622.0	620.3
40°	697.2	668.1	646.1	629.1	615.9	609.9	603.3	598.9	596.7	594.0	592.9
42.5°	662.1	634.6	613.7	598.4	587.4	582.5	576.4	573.7	568.7	564.9	564.3
45°	626.4	599.5	580.3	567.6	557.8	551.7	547.9	541.3	539.1	534.7	534.1
47.5°	593.4	567.1	547.9	537.4	528.7	524.3	518.2	511.1	508.3	505.6	505.1
50°	555.6	531.9	514.4	504.5	496.3	489.1	483.1	478.7	477.1	477.1	478.2
52.5°	517.1	497.9	483.6	471.0	463.3	455.6	450.2	448.0	445.2	448.5	450.7
55°	479.8	459.5	448.5	437.0	429.3	420.5	417.8	416.7	415.0	419.4	421.6
57.5°	439.7	426.0	412.8	400.7	394.2	388.7	384.3	383.7	387.0	388.1	394.7
60°	401.8	385.4	373.8	365.1	356.8	353.5	352.4	351.3	353.5	359.6	368.9
62.5°	360.1	347.5	334.9	328.8	323.3	317.3	317.3	318.4	323.3	330.5	339.8
65°	319.5	308.0	299.7	292.1	287.1	283.8	284.9	287.1	292.1	301.4	311.8
67.5°	277.8	270.1	262.4	255.3	250.3	250.9	251.4	254.2	260.2	271.2	281.1
70°	237.7	228.9	222.9	220.1	216.3	214.1	217.4	222.9	227.8	237.7	245.9
72.5°	197.6	190.5	186.1	184.5	183.4	181.7	182.3	188.3	195.4	205.3	215.2
75°	158.1	155.4	152.1	149.9	148.2	149.3	150.4	155.9	161.4	171.8	182.8
77.5°	122.4	119.1	116.9	116.4	115.3	115.8	118.6	123.0	128.5	136.1	144.9
80°	87.3	86.2	85.1	84.5	84.5	85.1	89.5	92.2	97.2	104.3	110.9
82.5°	57.6	57.1	57.1	57.1	57.6	57.6	59.8	63.7	67.5	72.5	78.0
85°	33.5	32.4	34.0	34.6	33.5	35.1	36.2	38.4	40.1	42.8	45.6
87.5°	13.7	14.8	14.3	14.8	14.8	15.9	15.4	17.6	18.7	19.8	19.2
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: P242828

CATALOG NUMBER: S125DRP-S1090D935-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1293.4	1293.4	1293.4	1293.4
2.5°	1217.1	1220.9	1217.6	1222.0
5°	1135.8	1130.9	1134.2	1132.0
7.5°	1060.6	1056.2	1049.6	1047.4
10°	990.9	984.8	984.3	980.5
12.5°	939.8	934.3	926.7	925.6
15°	892.1	887.7	883.8	887.1
17.5°	851.4	847.6	846.5	843.2
20°	813.6	810.8	811.9	804.8
22.5°	783.4	777.3	776.2	776.2
25°	751.5	748.8	746.0	748.8
27.5°	723.5	720.8	719.7	720.2
30°	698.3	692.8	693.3	692.8
32.5°	670.8	667.5	666.4	665.3
35°	643.9	643.9	641.2	641.2
37.5°	619.2	618.7	617.0	618.1
40°	590.7	590.1	588.5	585.2
42.5°	563.2	561.0	560.5	559.9
45°	534.1	534.1	533.0	532.5
47.5°	505.6	506.7	508.9	508.3
50°	480.3	480.9	482.5	483.1
52.5°	452.3	456.2	458.4	457.8
55°	426.5	430.4	434.2	434.8
57.5°	400.7	405.7	409.5	410.6
60°	374.4	381.5	386.5	388.7
62.5°	349.1	357.4	362.3	362.3
65°	321.1	329.4	333.8	337.1
67.5°	292.1	300.3	304.7	307.4
70°	259.7	267.9	274.5	276.7
72.5°	227.8	235.0	239.9	242.6
75°	189.9	199.8	204.8	207.5
77.5°	153.7	163.6	166.3	168.0
80°	117.5	123.0	126.8	127.4
82.5°	83.4	87.8	88.4	90.0
85°	49.4	51.6	52.2	51.6
87.5°	20.3	19.8	19.8	20.9
90°	0.0	0.0	0.0	0.0

TEST NUMBER: P242828

CATALOG NUMBER: S125DRP-S1090D935-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	18.36	19.93	18.73	20.25	20.56	18.34	19.90	18.70	20.22	20.53
	3H	19.73	21.14	20.11	21.47	21.83	19.77	21.18	20.14	21.50	21.86
	4H	20.23	21.55	20.63	21.90	22.28	20.25	21.58	20.65	21.93	22.30
	6H	20.56	21.79	20.98	22.16	22.55	20.57	21.79	20.98	22.16	22.55
	8H	20.66	21.82	21.08	22.21	22.61	20.65	21.82	21.07	22.21	22.61
	12H	20.70	21.82	21.13	22.20	22.63	20.69	21.81	21.12	22.19	22.62
4H	2H	19.87	21.20	20.27	21.54	21.92	19.41	20.74	19.81	21.09	21.47
	3H	21.22	22.32	21.63	22.72	23.12	21.08	22.18	21.49	22.58	22.98
	4H	21.72	22.72	22.15	23.13	23.57	21.63	22.63	22.06	23.04	23.48
	6H	22.10	22.96	22.55	23.40	23.86	22.01	22.87	22.46	23.31	23.77
	8H	22.20	23.01	22.66	23.45	23.92	22.10	22.91	22.56	23.36	23.82
	12H	22.26	22.99	22.74	23.46	23.93	22.16	22.88	22.64	23.36	23.83
8H	4H	22.21	23.02	22.67	23.46	23.93	21.97	22.78	22.43	23.23	23.69
	6H	22.66	23.33	23.15	23.82	24.30	22.48	23.15	22.97	23.64	24.11
	8H	22.80	23.40	23.31	23.91	24.40	22.62	23.22	23.13	23.73	24.22
	12H	22.90	23.44	23.41	23.93	24.49	22.72	23.25	23.23	23.74	24.31
12H	4H	22.25	22.98	22.73	23.46	23.93	21.99	22.72	22.47	23.19	23.66
	6H	22.74	23.34	23.25	23.85	24.34	22.52	23.13	23.03	23.63	24.12
	8H	22.93	23.46	23.44	23.96	24.52	22.73	23.26	23.24	23.75	24.32