

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: P242931

Luminaire Tested: S125RDRP-S1090D935-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P242931
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-32)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDRP-S1090D935-X4F0-XX-UDD-A-W
Description: DEFINE 5 REGRESSED DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

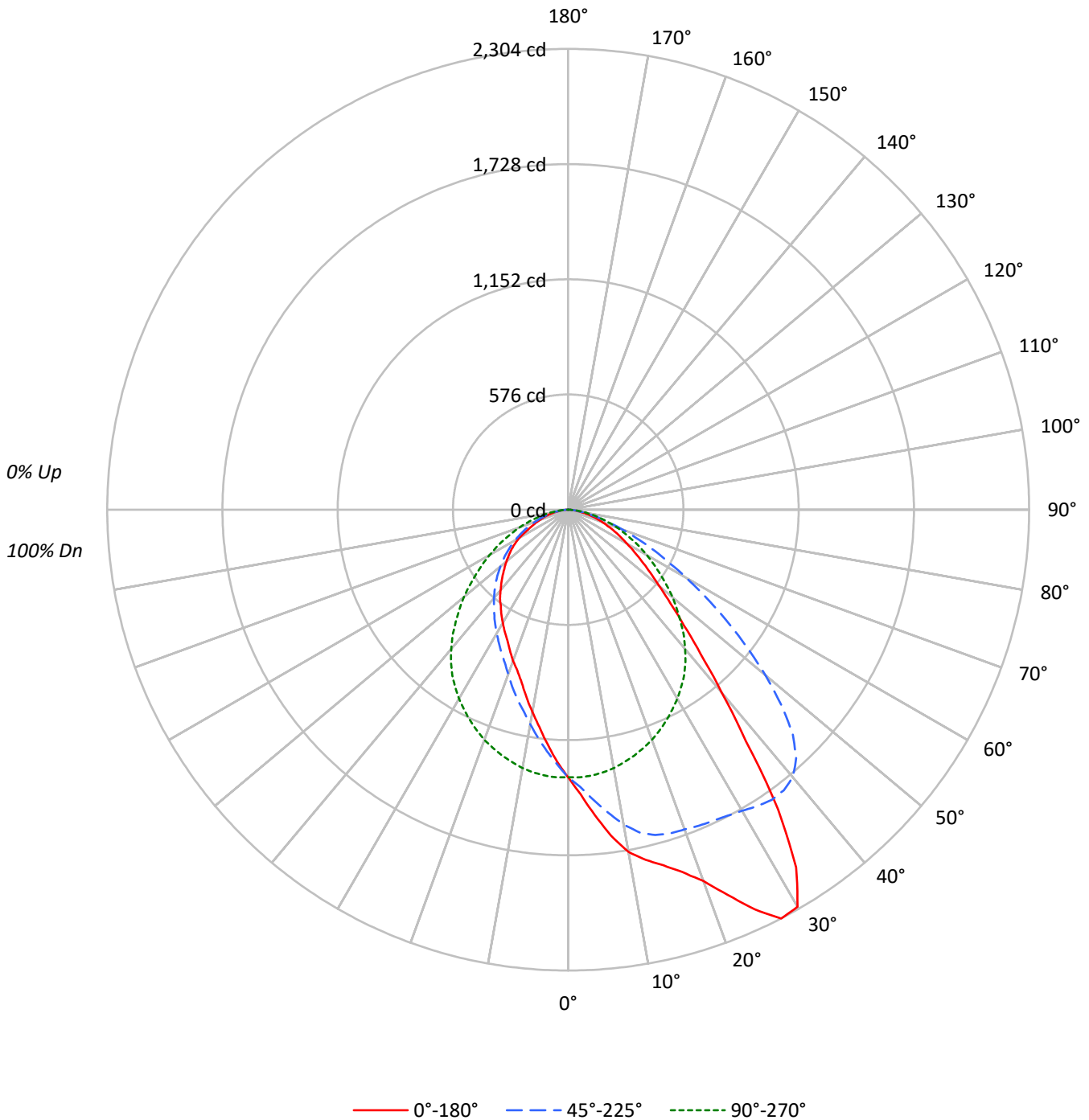
Lumens per Lamp: N/A
Luminaire Lumens: 3464.8 lumens
Efficiency: N/A
Efficacy: 99.6 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1.21 / 1.48
Luminous Opening: Rectangular (W 3.88' x L: 0.39' x H: 0')
CIE Type: Direct

Input Watts (W): 34.8
Input Voltage (V): 120
Input Current (A_{in}): 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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88					86				
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75					73				
3	92	83	75	69	90	81	74	69	78	72	67	76	70	66	73	69	65					63				
4	85	74	66	59	83	73	65	59	70	63	58	68	62	57	66	61	57					55				
5	79	66	58	52	77	65	57	51	63	56	51	61	55	50	60	54	50					48				
6	73	60	52	45	71	59	51	45	57	50	45	56	49	44	54	49	44					42				
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	50	44	39					37				
8	63	50	42	36	61	49	42	36	48	41	36	47	40	36	46	40	35					34				
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32					30				
10	55	42	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29					28				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	9505	9505	9505	9505	9505
5°	10935	10394	9517	8648	8405
10°	12543	11529	9469	7860	7417
15°	13548	12389	9371	7218	6592
20°	14939	12863	9259	6626	6087
25°	17289	13453	9109	6195	5648
30°	18814	14264	8952	5852	5362
35°	15870	15375	8768	5582	5097
40°	11083	16207	8439	5348	4869
45°	8222	15946	7995	5126	4646
50°	6556	14209	7533	4886	4455
55°	5564	11932	6959	4639	4285
60°	4807	9669	6445	4354	4011
65°	4283	7718	5889	4034	3453
70°	3765	5920	5397	3662	3148
75°	3257	4416	4674	3257	2955
80°	2472	3168	3933	2898	2472
85°	2063	2234	3091	2463	2324

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 15946 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.2	3.7
10°-20°	376.0	10.9
20°-30°	596.1	17.2
30°-40°	720.3	20.8
40°-50°	641.4	18.5
50°-60°	491.8	14.2
60°-70°	319.4	9.2
70°-80°	155.0	4.5
80°-90°	36.4	1.1
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°	1100.3	31.8
0°-40°	1820.7	52.5
0°-60°	2953.9	85.3
0°-90°	3464.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3464.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1337	1337	1337	1337	1337	
5°	1533	1457	1334	1212	1178	153
15°	1841	1684	1274	981	896	527
25°	2205	1716	1162	790	720	1015
35°	1829	1772	1011	643	587	1109
45°	818	1586	795	510	462	649
55°	449	963	562	374	346	407
65°	255	459	350	240	205	253
75°	119	161	170	119	108	126
85°	25	27	38	30	28	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°	1337.3	1337.3	1337.3	1337.3	1337.3	1337.3	1337.3	1337.3	1337.3	1337.3	1337.3
2.5°	1424.0	1422.9	1425.1	1419.1	1419.6	1410.3	1410.3	1403.1	1393.8	1386.7	1383.4
5°	1532.7	1533.8	1531.6	1523.4	1517.9	1509.6	1500.3	1483.8	1470.1	1456.9	1446.5
7.5°	1643.6	1644.7	1637.5	1635.9	1621.6	1612.8	1592.0	1570.6	1551.9	1527.2	1509.6
10°	1738.0	1737.5	1729.8	1723.7	1711.7	1696.3	1676.0	1649.6	1624.9	1597.5	1571.1
12.5°	1792.9	1791.3	1790.2	1782.5	1771.5	1758.3	1741.9	1716.1	1684.2	1653.5	1621.6
15°	1841.2	1837.4	1830.2	1820.9	1805.0	1789.1	1769.8	1746.8	1717.7	1683.7	1655.1
17.5°	1899.4	1900.0	1889.0	1879.1	1858.2	1831.9	1803.3	1768.2	1730.9	1696.3	1667.7
20°	1975.2	1973.5	1962.5	1937.3	1912.6	1877.4	1843.4	1797.8	1749.5	1700.7	1662.8
22.5°	2083.9	2078.9	2067.4	2032.3	1990.5	1942.8	1886.2	1828.0	1767.1	1710.0	1657.3
25°	2204.6	2201.3	2178.8	2140.4	2086.6	2016.9	1948.8	1872.5	1788.5	1715.5	1655.1
27.5°	2304.5	2297.9	2277.6	2241.4	2188.7	2113.5	2019.6	1920.8	1820.9	1724.8	1641.9
30°	2292.5	2300.7	2298.5	2283.7	2246.3	2180.5	2095.4	1980.7	1856.0	1738.0	1634.3
32.5°	2120.1	2127.2	2151.9	2192.0	2204.1	2187.6	2129.4	2025.7	1895.6	1757.2	1628.2
35°	1829.1	1839.0	1876.3	1935.1	2011.9	2076.2	2089.3	2032.3	1916.4	1772.0	1622.2
37.5°	1459.1	1523.4	1548.6	1608.5	1729.2	1846.2	1947.7	1970.8	1908.2	1768.8	1615.0
40°	1194.5	1207.7	1263.7	1333.4	1431.1	1554.1	1716.1	1833.0	1836.8	1746.8	1592.0
42.5°	979.3	996.9	1030.9	1083.1	1163.2	1286.2	1454.7	1618.3	1706.7	1686.4	1561.8
45°	818.0	830.6	858.6	901.4	965.6	1067.2	1211.0	1389.4	1531.1	1586.5	1503.1
47.5°	691.7	698.3	724.1	758.7	808.1	884.9	1001.9	1163.2	1331.8	1444.3	1422.4
50°	592.9	600.6	619.2	643.9	684.0	746.6	835.5	964.5	1139.6	1285.1	1314.2
52.5°	516.0	522.1	531.9	555.0	586.3	630.8	698.3	811.9	965.1	1122.1	1198.9
55°	449.0	453.4	462.8	475.9	502.3	536.9	598.9	679.6	807.0	962.9	1061.7
57.5°	392.0	394.2	399.6	412.8	432.0	457.8	505.0	578.6	670.8	817.4	926.1
60°	338.2	340.4	348.0	356.3	370.5	393.6	428.7	476.5	564.3	680.2	790.5
62.5°	295.3	296.4	298.6	306.9	318.9	335.4	361.2	398.0	463.3	561.6	664.2
65°	254.7	255.3	256.4	263.0	270.6	283.8	301.9	329.4	382.1	458.9	551.2
67.5°	214.1	215.2	219.0	221.2	230.6	237.2	248.7	270.6	311.3	366.2	440.8
70°	181.2	180.6	184.5	187.2	189.9	198.2	205.3	222.3	245.4	284.9	344.7
72.5°	150.4	148.8	149.9	150.4	154.3	159.2	166.3	175.1	191.6	215.7	258.0
75°	118.6	119.1	119.1	120.2	123.0	125.2	127.4	132.8	142.7	160.8	185.5
77.5°	88.9	87.8	90.6	90.6	92.8	95.5	97.2	99.4	103.2	111.4	126.3
80°	60.4	60.4	60.9	62.6	62.0	63.1	65.9	68.1	73.0	77.4	81.8
82.5°	42.8	42.3	42.8	42.8	42.8	43.9	44.5	44.5	45.6	47.2	50.0
85°	25.3	25.3	25.8	25.8	26.4	26.4	26.9	26.9	26.9	27.4	28.0
87.5°	12.1	11.5	11.0	11.0	11.5	12.6	12.1	11.5	11.5	11.5	12.1
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°	1337.3	1337.3	1337.3	1337.3	1337.3	1337.3	1337.3	1337.3	1337.3	1337.3	1337.3
2.5°	1383.4	1379.5	1372.4	1365.8	1357.6	1350.4	1345.5	1339.5	1331.8	1322.4	1314.8
5°	1435.0	1422.9	1407.0	1393.3	1375.7	1362.0	1347.7	1334.0	1320.3	1302.7	1287.3
7.5°	1492.1	1468.5	1446.5	1418.0	1392.2	1369.7	1347.7	1325.2	1303.8	1279.6	1257.1
10°	1543.7	1513.5	1480.0	1441.6	1406.4	1373.0	1342.2	1312.0	1280.2	1252.2	1222.0
12.5°	1592.0	1550.8	1511.3	1460.2	1416.3	1373.5	1332.3	1292.8	1258.2	1219.8	1186.9
15°	1617.2	1578.8	1536.0	1476.7	1418.0	1368.6	1322.4	1273.6	1231.3	1190.7	1154.5
17.5°	1632.1	1591.4	1542.0	1484.4	1421.3	1359.8	1301.6	1249.4	1201.1	1154.5	1114.4
20°	1625.5	1586.5	1535.4	1481.1	1412.5	1347.7	1283.5	1224.2	1168.7	1118.8	1075.4
22.5°	1609.6	1568.9	1520.1	1461.9	1397.7	1327.9	1258.2	1194.0	1135.3	1083.1	1034.8
25°	1593.6	1538.7	1488.2	1432.2	1370.2	1302.1	1231.3	1161.6	1099.6	1046.9	995.3
27.5°	1578.3	1511.8	1449.3	1395.5	1329.0	1267.6	1198.4	1126.5	1061.7	1008.4	955.7
30°	1555.8	1478.9	1408.1	1345.0	1282.9	1225.3	1160.5	1090.8	1023.8	968.4	914.6
32.5°	1527.8	1444.9	1365.3	1290.1	1230.8	1173.7	1116.6	1050.7	985.9	928.3	873.4
35°	1505.3	1400.9	1316.4	1239.0	1172.6	1117.1	1064.4	1010.6	945.3	886.0	832.8
37.5°	1474.0	1359.2	1263.7	1179.2	1110.0	1055.1	1012.8	961.8	900.8	843.2	793.8
40°	1446.0	1313.1	1206.1	1122.6	1049.1	990.3	951.3	909.6	855.3	802.0	752.6
42.5°	1408.6	1270.8	1147.9	1060.0	985.9	929.9	890.4	855.3	811.9	762.5	708.7
45°	1357.6	1213.8	1088.0	994.7	920.1	864.6	827.8	795.4	760.9	714.7	668.6
47.5°	1296.6	1159.4	1027.1	924.4	852.5	800.4	764.2	737.3	712.0	671.9	625.3
50°	1220.3	1089.1	960.7	861.9	783.9	735.1	701.6	681.3	658.8	623.1	585.7
52.5°	1130.3	1016.7	891.5	790.0	717.5	672.5	640.6	620.3	602.8	575.3	540.2
55°	1034.8	932.1	816.9	725.2	657.7	611.5	580.8	561.6	550.6	525.9	497.9
57.5°	926.6	847.6	743.3	653.8	592.9	546.8	523.7	506.7	494.1	475.9	455.1
60°	812.5	760.9	669.7	585.7	530.8	487.5	467.2	453.4	441.9	427.1	411.7
62.5°	696.6	662.6	586.3	517.1	467.7	433.1	414.5	402.4	388.7	379.9	365.1
65°	595.6	562.1	507.2	450.7	404.0	374.9	361.2	350.2	342.0	331.0	320.6
67.5°	483.6	468.3	427.6	385.4	351.3	323.3	311.3	302.5	293.1	286.6	278.9
70°	382.1	375.5	348.6	322.8	291.5	273.9	263.0	259.7	247.6	241.0	236.1
72.5°	292.0	289.9	277.2	261.3	241.5	226.7	216.8	213.0	206.4	201.5	198.7
75°	212.4	213.5	210.8	199.3	191.0	181.2	172.4	170.2	164.7	160.3	157.6
77.5°	144.9	150.4	149.3	148.8	144.9	137.8	133.9	132.3	126.3	124.6	124.1
80°	92.2	98.3	103.8	103.2	102.1	100.5	97.7	96.1	93.3	91.7	90.6
82.5°	53.8	59.3	63.7	67.5	67.5	65.9	64.2	63.7	63.7	62.6	62.6
85°	29.1	30.2	31.8	35.7	38.4	39.0	38.4	37.9	36.2	36.8	37.3
87.5°	12.6	12.6	13.2	13.2	12.6	15.4	17.0	17.6	16.5	15.4	14.3
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°	1337.3	1337.3	1337.3	1337.3	1337.3	1337.3	1337.3	1337.3	1337.3	1337.3	1337.3
2.5°	1309.3	1301.6	1296.1	1285.1	1277.4	1274.1	1268.1	1266.5	1272.5	1268.1	1267.6
5°	1275.8	1259.9	1247.2	1234.6	1220.9	1212.1	1198.9	1196.7	1193.4	1188.5	1187.4
7.5°	1236.8	1217.0	1202.2	1181.4	1164.3	1150.6	1134.2	1127.6	1124.3	1118.2	1108.4
10°	1197.3	1172.6	1150.6	1129.8	1107.3	1089.1	1072.7	1060.0	1051.8	1044.1	1040.8
12.5°	1158.3	1133.1	1103.4	1077.1	1051.3	1030.4	1011.7	1004.6	995.3	985.9	977.1
15°	1117.7	1084.2	1053.5	1024.4	1003.0	981.0	963.4	951.3	937.6	933.8	919.0
17.5°	1074.3	1043.0	1006.8	975.5	951.3	928.3	909.1	894.8	884.4	869.6	862.4
20°	1034.2	995.3	960.1	932.1	904.7	876.1	856.4	844.9	835.0	823.4	818.0
22.5°	991.4	953.5	917.3	883.3	855.3	827.3	814.7	802.6	791.1	780.6	772.9
25°	949.7	911.3	873.4	839.4	810.3	790.0	773.5	759.8	753.7	743.3	735.6
27.5°	908.0	867.4	828.9	793.2	770.7	750.4	737.3	726.3	714.7	705.4	698.3
30°	867.9	826.2	783.4	756.5	732.3	713.1	698.3	687.8	679.6	671.4	666.4
32.5°	827.8	784.5	747.7	718.0	695.5	679.6	664.2	654.4	645.6	636.2	630.2
35°	784.5	740.5	709.8	681.3	658.8	643.4	633.0	618.7	611.5	605.0	598.9
37.5°	745.5	703.8	669.7	645.0	624.2	609.3	595.6	588.5	579.2	573.7	568.7
40°	701.6	664.2	634.0	607.7	593.4	576.4	563.8	553.9	547.3	539.6	534.1
42.5°	662.0	628.0	598.9	575.9	557.2	543.5	531.4	521.5	512.7	507.8	503.4
45°	625.3	590.7	562.1	540.2	523.7	510.0	497.4	492.4	481.4	474.9	472.7
47.5°	586.8	555.5	527.6	507.2	490.2	477.6	465.5	454.5	449.0	442.5	439.2
50°	547.9	518.2	492.4	472.7	456.2	441.9	430.9	424.3	416.1	410.1	405.7
52.5°	508.9	482.0	456.2	437.5	423.8	409.5	396.9	390.3	382.6	379.3	376.6
55°	472.1	443.0	421.1	402.4	387.6	374.4	362.9	356.3	351.3	347.5	346.4
57.5°	429.8	406.2	385.4	368.9	353.0	340.4	329.9	323.9	319.5	318.9	315.1
60°	388.7	367.8	349.1	331.0	317.8	306.3	297.5	290.4	286.0	285.5	284.4
62.5°	347.5	327.7	310.7	295.3	283.8	272.8	264.6	256.4	254.2	250.9	248.1
65°	306.9	288.8	274.5	261.9	249.2	239.9	231.7	226.7	220.7	217.4	211.3
67.5°	266.8	252.0	238.2	227.8	217.4	208.1	200.9	193.8	189.4	186.6	181.7
70°	227.3	216.3	202.6	191.0	183.4	176.2	170.7	162.5	159.7	157.6	155.4
72.5°	189.9	180.6	169.6	160.8	153.2	146.6	140.0	137.2	134.5	132.3	131.2
75°	155.4	146.0	136.1	129.6	124.1	118.6	115.3	112.5	111.4	110.9	108.7
77.5°	120.8	115.3	107.0	101.0	97.2	95.0	91.7	90.6	91.1	88.4	87.8
80°	87.3	84.5	78.0	75.8	73.0	70.8	69.2	66.4	63.7	62.6	60.9
82.5°	59.3	56.5	54.9	51.1	48.9	47.8	46.1	45.6	46.7	45.0	44.5
85°	34.6	31.8	30.7	30.2	29.1	30.2	29.6	29.1	28.5	28.0	28.5
87.5°	13.7	13.7	13.2	14.3	12.6	13.2	13.2	12.6	12.6	12.6	12.1
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: P242931

CATALOG NUMBER: S125RDRP-S1090D935-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1337.3	1337.3	1337.3	1337.3
2.5°	1267.0	1261.0	1259.3	1261.5
5°	1181.9	1176.4	1179.2	1178.1
7.5°	1110.0	1102.9	1094.6	1096.8
10°	1033.7	1028.2	1024.9	1027.7
12.5°	969.5	966.7	964.0	961.8
15°	912.4	905.8	903.0	895.9
17.5°	857.5	855.3	848.1	843.2
20°	809.7	807.5	800.4	804.8
22.5°	770.2	764.7	763.6	760.9
25°	733.4	726.3	723.5	720.2
27.5°	696.1	692.2	688.4	687.3
30°	659.9	656.0	653.3	653.3
32.5°	627.5	624.7	622.0	621.4
35°	596.2	591.8	590.7	587.4
37.5°	563.2	559.4	559.4	559.9
40°	531.9	529.2	528.6	524.8
42.5°	498.5	497.4	495.2	494.1
45°	468.8	465.0	465.0	462.2
47.5°	437.5	434.2	434.8	431.5
50°	406.2	404.6	404.0	402.9
52.5°	374.9	374.4	377.1	374.4
55°	347.5	345.8	349.1	345.8
57.5°	315.1	314.0	317.3	315.1
60°	283.3	280.0	281.6	282.2
62.5°	245.4	243.7	244.8	241.5
65°	210.3	208.6	206.4	205.3
67.5°	182.8	177.9	177.9	179.0
70°	152.1	152.1	151.5	151.5
72.5°	130.7	130.1	129.0	128.5
75°	108.7	109.2	108.1	107.6
77.5°	85.1	82.3	83.4	82.3
80°	60.9	60.4	62.0	60.4
82.5°	45.0	44.5	45.0	43.9
85°	29.1	28.5	28.0	28.5
87.5°	12.6	12.1	12.1	12.1
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P242931
 CATALOG NUMBER: S125RDRP-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	17.45	18.98	17.81	19.30	19.61	18.43	19.96	18.79	20.27	20.59
	3H	18.57	19.95	18.95	20.28	20.64	19.90	21.28	20.28	21.61	21.97
	4H	18.96	20.25	19.36	20.60	20.98	20.42	21.71	20.82	22.06	22.44
	6H	19.19	20.38	19.60	20.75	21.14	20.77	21.96	21.18	22.32	22.72
	8H	19.25	20.38	19.67	20.77	21.17	20.86	22.00	21.29	22.39	22.79
	12H	19.28	20.37	19.71	20.75	21.18	20.92	22.01	21.35	22.39	22.82
4H	2H	19.04	20.33	19.44	20.68	21.05	19.27	20.57	19.67	20.91	21.29
	3H	20.10	21.17	20.51	21.57	21.98	20.94	22.01	21.35	22.41	22.81
	4H	20.49	21.45	20.92	21.87	22.30	21.52	22.49	21.96	22.90	23.34
	6H	20.74	21.58	21.20	22.02	22.48	21.95	22.79	22.41	23.23	23.69
	8H	20.80	21.59	21.27	22.03	22.50	22.07	22.85	22.54	23.30	23.77
	12H	20.85	21.55	21.33	22.03	22.50	22.15	22.85	22.64	23.33	23.80
8H	4H	20.86	21.64	21.32	22.09	22.55	21.67	22.45	22.13	22.90	23.36
	6H	21.17	21.81	21.66	22.30	22.78	22.19	22.83	22.68	23.32	23.80
	8H	21.26	21.84	21.77	22.35	22.84	22.36	22.94	22.88	23.45	23.94
	12H	21.34	21.85	21.85	22.34	22.91	22.50	23.01	23.01	23.50	24.07
12H	4H	20.89	21.58	21.37	22.06	22.53	21.66	22.36	22.14	22.84	23.31
	6H	21.20	21.78	21.71	22.29	22.78	22.18	22.76	22.69	23.27	23.76
	8H	21.33	21.84	21.84	22.34	22.90	22.39	22.91	22.90	23.40	23.96