

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: P243792

Luminaire Tested: S125RDRP-H1270D935-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P243792
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-71)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDRP-H1270D935-X4F0-XX-UDD-A-W
Description: DEFINE 5 REGRESSED DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

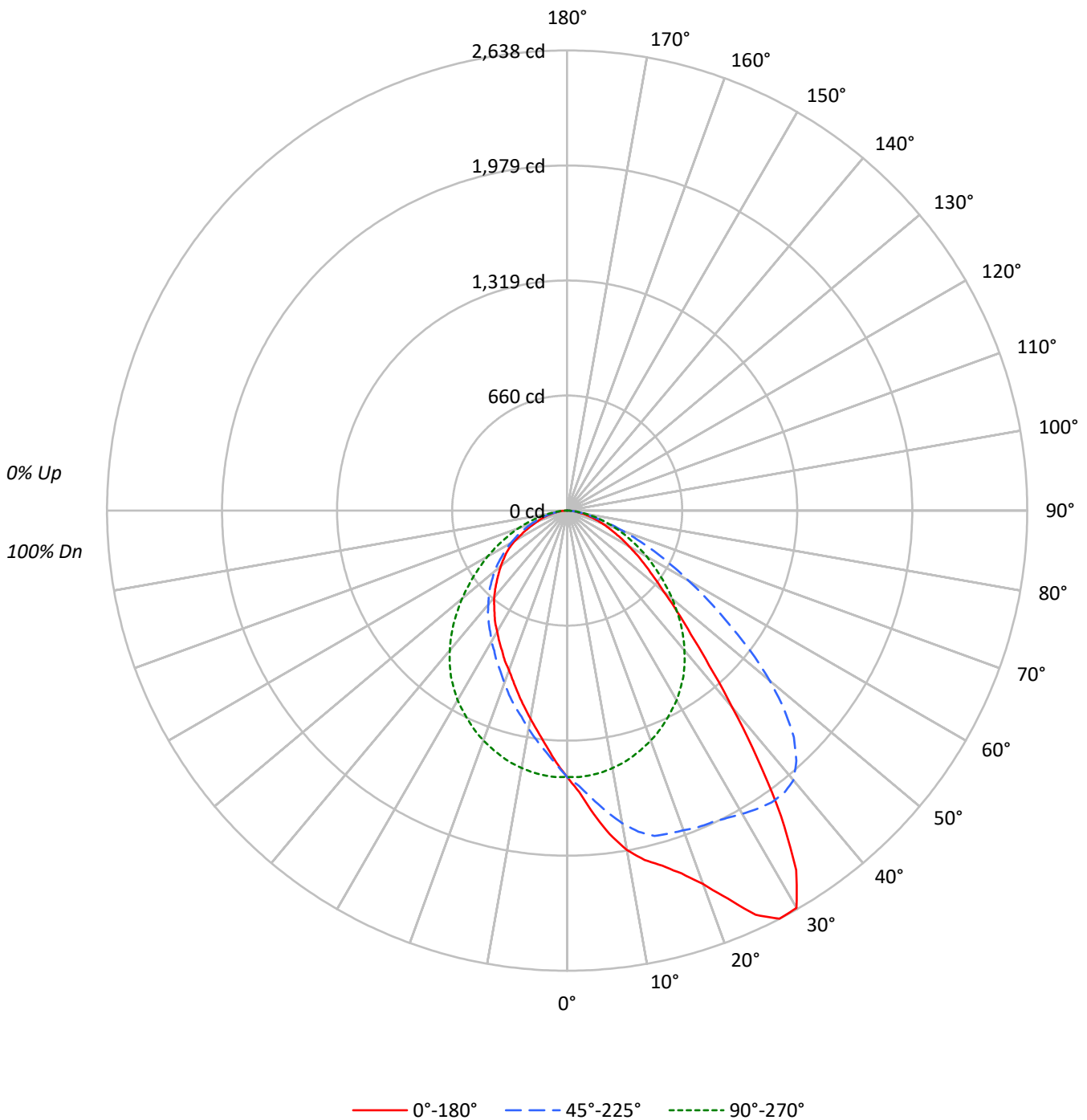
Lumens per Lamp: N/A
Luminaire Lumens: 4064.3 lumens
Efficiency: N/A
Efficacy: 107.8 lumens/watt
Spacing Criteria (0/90/45): 1.42 / 1.22 / 1.5
Luminous Opening: Rectangular (W 3.88' x L: 0.39' x H: 0')
CIE Type: Direct

Input Watts (W): 37.7
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	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	68	78	72	67	75	70	66	73	69	65					63				
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	66	61	56					54				
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50					48				
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44					42				
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	44	39					37				
8	63	50	42	36	61	49	41	36	48	41	36	47	40	35	45	40	35					33				
9	59	46	38	32	57	45	38	32	44	37	32	43	37	32	42	36	32					30				
10	55	42	35	29	54	42	34	29	41	34	29	40	34	29	39	33	29					27				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	10854	10854	10854	10854	10854
5°	12459	11837	10869	9911	9669
10°	14255	13132	10816	9173	8740
15°	15505	14208	10729	8541	7993
20°	17230	14752	10607	7951	7365
25°	20048	15452	10457	7493	6933
30°	21587	16474	10302	7106	6579
35°	18546	17721	10072	6799	6294
40°	13663	18725	9708	6522	6033
45°	10092	18472	9257	6281	5721
50°	7994	16765	8704	6019	5490
55°	6753	13993	8065	5650	5282
60°	5818	11430	7471	5302	4888
65°	5050	9226	6803	4867	4256
70°	4428	7009	6228	4403	3724
75°	3757	5105	5454	3891	3526
80°	2926	3692	4560	3422	2926
85°	2569	2716	3653	2911	2667

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 18472 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.0	3.6
10°-20°	434.9	10.7
20°-30°	693.6	17.1
30°-40°	842.2	20.7
40°-50°	758.9	18.7
50°-60°	583.6	14.4
60°-70°	378.7	9.3
70°-80°	182.2	4.5
80°-90°	43.1	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°	1275.5	31.4
0°-40°	2117.7	52.1
0°-60°	3460.2	85.1
0°-90°	4064.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4064.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1527	1527	1527	1527	1527	
5°	1746	1659	1524	1389	1355	174
15°	2107	1931	1458	1161	1086	604
25°	2556	1970	1333	956	884	1169
35°	2138	2042	1161	784	725	1308
45°	1004	1838	921	625	569	798
55°	545	1129	651	456	426	494
65°	300	549	404	289	253	301
75°	137	186	199	142	128	147
85°	32	33	45	36	33	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°	1527.1	1527.1	1527.1	1527.1	1527.1	1527.1	1527.1	1527.1	1527.1	1527.1	1527.1
2.5°	1615.5	1621.6	1616.8	1619.8	1614.9	1612.5	1606.5	1597.4	1588.3	1579.8	1579.2
5°	1746.3	1745.1	1740.3	1733.6	1728.8	1716.7	1710.6	1690.0	1676.1	1659.1	1650.7
7.5°	1871.1	1868.0	1860.8	1851.7	1847.5	1831.7	1814.8	1788.7	1766.9	1740.3	1720.3
10°	1975.2	1974.6	1969.2	1963.1	1946.8	1929.2	1912.9	1885.6	1852.9	1819.6	1791.8
12.5°	2051.5	2048.5	2041.8	2031.5	2018.2	2006.1	1984.3	1959.5	1919.5	1885.6	1847.5
15°	2107.2	2106.0	2096.3	2092.7	2066.7	2049.7	2020.6	1995.8	1964.9	1931.0	1889.8
17.5°	2181.1	2183.5	2175.1	2154.5	2130.8	2104.8	2063.6	2023.1	1980.1	1940.7	1907.4
20°	2278.0	2271.9	2257.4	2232.6	2190.2	2158.1	2116.9	2066.7	2008.5	1950.4	1902.6
22.5°	2407.6	2400.9	2377.9	2347.6	2294.3	2235.6	2172.6	2097.5	2030.9	1964.3	1901.4
25°	2556.5	2543.8	2509.9	2477.2	2401.5	2339.1	2245.3	2155.7	2058.8	1970.4	1899.5
27.5°	2637.7	2637.7	2621.9	2586.2	2526.3	2434.2	2338.5	2219.3	2107.2	1986.1	1885.6
30°	2630.4	2626.2	2632.2	2617.1	2578.3	2509.3	2414.2	2288.9	2146.0	2007.3	1886.8
32.5°	2442.7	2444.5	2480.8	2505.7	2525.0	2508.1	2446.3	2333.1	2190.8	2027.9	1882.0
35°	2137.5	2142.4	2206.5	2248.9	2335.5	2385.2	2399.7	2338.5	2210.8	2042.4	1873.5
37.5°	1788.7	1788.7	1863.2	1927.4	2024.3	2146.6	2238.0	2261.0	2198.7	2041.8	1866.2
40°	1472.6	1470.8	1529.6	1608.3	1711.8	1846.9	1983.1	2100.0	2115.1	2018.2	1840.8
42.5°	1205.0	1202.0	1266.2	1309.8	1418.7	1539.2	1720.3	1885.6	1980.1	1945.0	1803.3
45°	1004.0	1001.5	1043.3	1093.0	1169.9	1295.2	1447.2	1630.7	1789.3	1837.8	1733.0
47.5°	852.6	853.8	876.2	918.0	983.4	1073.0	1209.2	1379.4	1575.6	1687.6	1644.6
50°	723.0	727.2	744.2	775.7	823.5	895.6	1012.4	1166.2	1367.9	1516.2	1525.3
52.5°	626.1	632.2	650.3	667.3	707.3	758.1	848.9	982.2	1148.7	1326.7	1390.3
55°	545.0	548.0	558.3	576.5	606.1	648.5	714.5	816.2	970.7	1129.3	1241.3
57.5°	477.2	477.2	483.8	496.5	520.1	558.3	602.5	686.7	816.9	960.4	1079.7
60°	409.3	411.8	416.6	430.5	446.3	475.3	518.3	571.6	684.2	804.1	932.5
62.5°	352.4	356.7	361.5	368.2	382.7	403.3	433.6	482.6	558.3	669.1	783.6
65°	300.3	304.6	305.2	313.1	322.7	339.7	362.7	398.4	461.4	548.6	643.1
67.5°	254.3	256.1	258.0	264.0	273.1	284.0	299.1	325.8	375.4	434.2	526.2
70°	213.1	214.4	215.0	221.6	225.9	235.5	243.4	260.4	291.9	337.3	408.7
72.5°	174.4	172.6	172.0	177.4	179.2	187.1	196.8	208.9	225.9	258.0	311.2
75°	136.8	137.5	138.1	141.1	141.7	145.3	151.4	159.3	167.1	185.9	219.8
77.5°	105.4	102.9	102.9	106.6	107.8	108.4	112.6	116.9	121.1	132.0	145.3
80°	71.5	72.7	72.7	72.7	73.3	74.5	76.9	80.5	83.6	90.2	92.6
82.5°	50.9	50.9	50.3	51.5	52.1	52.7	52.7	52.7	54.5	56.3	58.7
85°	31.5	32.1	30.3	31.5	32.1	32.1	32.1	32.1	33.9	33.3	33.9
87.5°	13.3	13.9	13.9	14.5	14.5	15.1	14.5	15.1	14.5	14.5	15.1
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°	1527.1	1527.1	1527.1	1527.1	1527.1	1527.1	1527.1	1527.1	1527.1	1527.1	1527.1
2.5°	1577.4	1570.1	1566.5	1559.2	1549.5	1543.5	1537.4	1529.0	1522.3	1512.0	1502.9
5°	1635.5	1621.0	1607.7	1589.5	1571.9	1556.8	1541.1	1523.5	1507.8	1490.2	1471.4
7.5°	1700.3	1677.3	1649.5	1617.4	1590.1	1566.5	1539.9	1513.8	1490.2	1462.3	1436.9
10°	1762.7	1725.7	1688.8	1645.8	1605.9	1570.7	1535.0	1498.7	1467.8	1433.3	1401.8
12.5°	1811.1	1776.0	1720.9	1667.6	1615.5	1570.1	1525.3	1481.1	1440.5	1402.4	1364.9
15°	1853.5	1795.4	1748.8	1690.6	1627.0	1565.3	1509.6	1458.1	1409.1	1364.3	1326.1
17.5°	1865.6	1813.6	1762.7	1694.9	1626.4	1556.2	1492.0	1430.9	1376.4	1326.7	1283.7
20°	1864.4	1811.7	1756.6	1691.8	1619.2	1542.3	1470.8	1402.4	1340.6	1283.7	1237.7
22.5°	1846.2	1795.4	1739.7	1674.3	1600.4	1521.1	1446.0	1370.3	1303.1	1243.8	1196.5
25°	1826.9	1762.7	1704.6	1638.6	1568.3	1495.0	1415.1	1333.4	1263.1	1201.4	1148.1
27.5°	1809.9	1733.0	1661.6	1596.8	1524.7	1458.7	1379.4	1294.0	1222.0	1157.2	1102.1
30°	1782.7	1701.5	1614.9	1544.1	1474.5	1405.4	1332.8	1255.3	1176.5	1110.5	1055.4
32.5°	1759.1	1656.7	1562.9	1482.9	1413.3	1352.7	1283.1	1208.6	1131.7	1068.8	1009.4
35°	1733.0	1610.7	1512.6	1418.7	1349.1	1283.1	1228.0	1160.8	1084.5	1017.9	964.6
37.5°	1702.1	1563.5	1450.8	1355.2	1283.1	1215.3	1165.6	1105.7	1036.7	970.7	918.0
40°	1667.6	1515.0	1385.4	1286.7	1209.2	1141.4	1099.6	1046.3	987.6	922.2	873.2
42.5°	1624.0	1463.6	1326.1	1218.3	1132.3	1071.2	1029.4	985.2	931.3	874.4	821.1
45°	1568.9	1399.4	1255.3	1141.4	1056.6	997.3	953.7	921.0	878.0	824.7	774.5
47.5°	1501.7	1332.2	1182.6	1064.5	982.8	925.8	885.3	852.6	819.9	773.9	726.0
50°	1412.7	1255.3	1111.7	991.2	904.7	849.6	813.2	787.2	757.5	720.0	676.4
52.5°	1314.6	1168.7	1028.2	915.6	832.0	776.9	739.3	717.5	695.1	664.3	626.7
55°	1200.8	1082.1	948.3	838.0	756.3	701.8	672.1	650.9	632.2	608.6	577.1
57.5°	1080.3	976.1	859.8	758.1	681.2	629.7	603.7	586.1	570.4	553.5	527.4
60°	953.7	879.8	769.6	676.4	609.2	566.8	541.9	525.6	511.1	497.1	477.8
62.5°	821.7	760.5	678.2	598.9	538.9	499.0	480.8	466.9	451.7	439.6	425.7
65°	687.9	652.8	595.8	521.4	466.3	433.6	416.0	404.5	397.2	383.3	372.4
67.5°	566.2	546.8	498.3	448.1	405.7	376.0	359.7	351.2	343.3	336.7	324.6
70°	450.5	436.6	408.7	373.0	339.7	314.3	302.2	299.7	288.8	282.2	276.1
72.5°	343.3	339.7	316.7	300.9	282.2	262.2	253.1	248.3	241.0	234.9	232.5
75°	244.0	249.5	242.2	234.3	225.3	208.9	201.0	198.6	192.0	190.1	187.1
77.5°	166.5	174.4	176.8	173.2	168.9	163.5	158.0	155.6	149.0	147.7	145.9
80°	104.8	116.3	120.5	119.9	118.1	118.7	112.0	111.4	108.4	106.6	108.4
82.5°	63.6	69.6	77.5	79.3	76.9	78.1	76.3	73.9	73.9	75.1	72.7
85°	34.5	35.1	38.8	41.2	44.2	46.6	44.2	44.8	44.2	44.2	42.4
87.5°	15.1	15.7	15.7	15.1	16.3	17.6	20.0	21.2	20.6	18.8	16.3
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°	1527.1	1527.1	1527.1	1527.1	1527.1	1527.1	1527.1	1527.1	1527.1	1527.1	1527.1
2.5°	1495.6	1491.4	1484.1	1478.1	1464.2	1454.5	1453.3	1453.9	1452.7	1451.4	1450.8
5°	1459.3	1445.4	1432.1	1420.6	1404.8	1389.1	1381.8	1378.8	1377.6	1370.9	1374.5
7.5°	1420.6	1399.4	1383.6	1361.8	1343.1	1329.7	1317.0	1311.0	1309.8	1300.7	1298.2
10°	1379.4	1354.0	1330.3	1308.5	1289.8	1271.0	1255.9	1250.4	1243.1	1235.9	1225.0
12.5°	1338.8	1307.3	1281.3	1257.1	1231.6	1210.4	1198.3	1190.5	1181.4	1174.7	1171.1
15°	1290.4	1263.7	1231.6	1205.6	1179.6	1160.8	1144.4	1129.9	1121.4	1116.0	1100.8
17.5°	1246.8	1211.7	1181.4	1156.6	1128.1	1106.9	1089.9	1077.8	1063.3	1052.4	1042.7
20°	1200.2	1163.8	1136.0	1106.3	1077.2	1051.2	1030.0	1020.3	1010.0	999.7	994.3
22.5°	1149.9	1118.4	1086.9	1056.0	1025.2	997.3	984.0	970.1	961.0	950.7	943.4
25°	1106.3	1071.8	1040.3	1005.8	971.9	955.5	937.4	923.4	916.2	905.9	898.0
27.5°	1059.7	1026.4	988.8	953.1	933.1	905.3	893.2	882.3	872.6	862.3	856.8
30°	1016.1	977.3	939.8	911.9	885.9	865.9	854.4	841.1	827.8	822.9	815.6
32.5°	970.1	928.3	895.6	867.7	845.9	821.7	810.8	799.9	787.2	781.1	774.5
35°	922.2	881.6	849.6	824.1	801.7	783.6	771.4	759.9	752.1	743.0	738.1
37.5°	872.0	836.8	806.0	780.5	759.9	745.4	730.3	721.2	710.3	701.8	698.2
40°	824.1	792.6	763.0	739.3	720.6	703.0	689.7	678.2	671.5	664.3	658.2
42.5°	781.1	748.4	723.0	698.2	681.2	664.3	650.9	642.5	631.0	627.9	619.5
45°	735.1	704.8	679.4	656.4	638.8	624.9	609.2	598.9	591.6	584.3	581.3
47.5°	688.5	660.6	637.0	615.8	597.7	581.9	569.8	558.9	551.0	544.4	540.7
50°	643.1	618.8	595.2	574.6	555.9	544.4	529.8	517.7	511.7	504.4	500.2
52.5°	595.2	575.2	549.8	532.3	514.7	499.6	485.0	477.2	471.1	465.0	462.0
55°	550.4	529.2	507.4	488.7	471.7	456.0	444.5	438.4	430.5	426.9	426.3
57.5°	504.4	482.6	464.4	447.5	428.1	416.0	405.7	398.4	391.8	388.7	388.7
60°	454.1	436.6	419.6	400.9	386.9	373.0	362.1	357.3	350.6	349.4	345.1
62.5°	408.1	391.8	375.4	357.9	345.1	331.2	323.4	316.7	313.1	308.2	303.4
65°	360.3	345.8	330.0	314.9	304.6	289.4	282.2	274.3	270.1	264.6	258.6
67.5°	314.3	300.3	285.8	271.9	263.4	248.9	244.0	234.3	231.3	225.3	219.8
70°	265.8	256.1	244.6	230.7	223.4	211.9	207.1	198.0	193.2	189.5	186.5
72.5°	224.0	215.0	201.6	192.6	183.5	176.2	168.3	164.1	159.9	156.8	156.2
75°	182.9	171.4	163.5	155.0	149.0	141.7	138.1	135.0	133.2	131.4	129.6
77.5°	139.9	135.0	127.2	118.7	113.8	110.8	108.4	107.2	105.4	104.8	102.9
80°	104.2	97.5	92.6	89.6	86.0	83.6	81.7	77.5	75.1	73.9	72.7
82.5°	69.0	67.2	63.6	60.6	57.5	56.9	55.1	53.9	53.3	53.3	52.7
85°	41.8	36.9	36.9	36.3	36.3	35.7	34.5	34.5	33.3	35.1	35.1
87.5°	17.0	17.0	15.7	15.7	16.3	15.1	14.5	14.5	14.5	13.9	14.5
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: P243792

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1527.1	1527.1	1527.1	1527.1
2.5°	1450.8	1447.8	1448.4	1444.8
5°	1367.9	1366.1	1360.0	1355.2
7.5°	1292.2	1284.3	1283.7	1278.9
10°	1221.3	1214.1	1210.4	1211.1
12.5°	1159.6	1151.7	1151.7	1146.9
15°	1093.6	1085.7	1086.9	1086.3
17.5°	1039.1	1033.6	1029.4	1025.8
20°	985.8	979.1	976.7	973.7
22.5°	936.7	931.9	932.5	932.5
25°	890.1	890.7	885.3	884.1
27.5°	848.9	847.7	846.5	844.1
30°	810.2	805.3	804.1	801.7
32.5°	770.2	769.6	764.8	766.6
35°	729.7	727.8	726.6	725.4
37.5°	692.1	688.5	687.9	686.7
40°	654.0	652.8	647.3	650.3
42.5°	612.8	610.4	610.4	610.4
45°	578.3	571.6	571.6	569.2
47.5°	539.5	537.1	535.9	531.7
50°	501.4	497.7	496.5	496.5
52.5°	462.0	461.4	462.6	460.2
55°	427.5	428.1	427.5	426.3
57.5°	390.0	386.9	386.9	387.5
60°	345.1	345.1	346.4	343.9
62.5°	302.2	300.9	296.7	295.5
65°	258.0	253.1	252.5	253.1
67.5°	218.6	216.8	213.8	214.4
70°	184.7	184.1	181.1	179.2
72.5°	154.4	154.4	152.6	152.6
75°	129.0	127.8	127.2	128.4
77.5°	99.3	96.3	97.5	95.7
80°	72.1	73.3	72.1	71.5
82.5°	53.3	52.1	52.7	52.1
85°	33.9	32.7	33.3	32.7
87.5°	13.9	14.5	14.5	13.3
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P243792

CATALOG NUMBER: S125RDRP-H1270D935-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	19.75	18.57	20.06	20.37	18.90	20.44	19.27	20.76	21.07
	3H	19.29	20.67	19.67	21.00	21.36	20.38	21.76	20.76	22.09	22.45
	4H	19.65	20.94	20.05	21.29	21.67	20.90	22.20	21.30	22.55	22.93
	6H	19.86	21.06	20.28	21.43	21.82	21.26	22.46	21.67	22.82	23.22
	8H	19.92	21.06	20.35	21.45	21.85	21.36	22.50	21.79	22.89	23.29
	12H	19.96	21.05	20.39	21.43	21.86	21.42	22.51	21.85	22.89	23.32
4H	2H	19.73	21.02	20.13	21.37	21.75	19.78	21.07	20.18	21.42	21.80
	3H	20.77	21.85	21.18	22.25	22.65	21.44	22.51	21.85	22.91	23.31
	4H	21.13	22.10	21.57	22.52	22.95	22.04	23.00	22.47	23.42	23.86
	6H	21.38	22.22	21.84	22.66	23.12	22.47	23.31	22.93	23.75	24.21
	8H	21.44	22.23	21.90	22.67	23.14	22.59	23.38	23.06	23.82	24.29
	12H	21.49	22.19	21.97	22.67	23.14	22.68	23.38	23.16	23.86	24.33
8H	4H	21.49	22.28	21.96	22.72	23.19	22.19	22.97	22.65	23.42	23.88
	6H	21.79	22.44	22.28	22.93	23.40	22.71	23.36	23.21	23.85	24.33
	8H	21.88	22.47	22.40	22.97	23.46	22.89	23.47	23.40	23.98	24.47
	12H	21.97	22.48	22.48	22.97	23.54	23.03	23.54	23.54	24.03	24.60
12H	4H	21.52	22.22	22.00	22.70	23.17	22.18	22.88	22.66	23.36	23.83
	6H	21.82	22.40	22.33	22.91	23.40	22.70	23.29	23.22	23.80	24.28
	8H	21.95	22.47	22.46	22.96	23.52	22.92	23.44	23.43	23.93	24.49