

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: P243767

Luminaire Tested: S125RDRP-H1270D927-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P243767
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-H1270D927-X4F0-XX-UDD-A-W
Description: DEFINE 5 REGRESSED DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

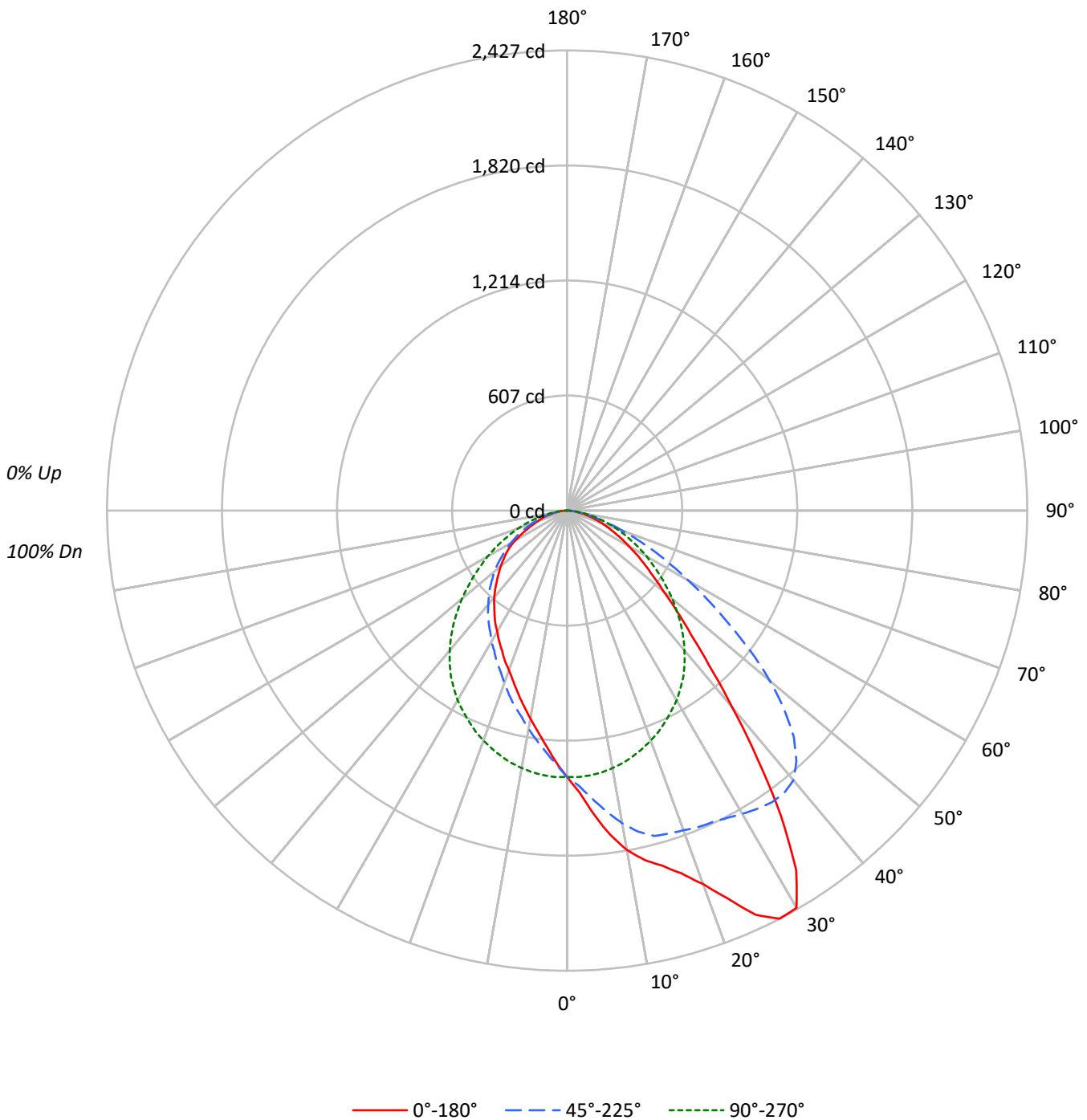
Lumens per Lamp: N/A
Luminaire Lumens: 3739.4 lumens
Efficiency: N/A
Efficacy: 99.2 lumens/watt
Spacing Criteria (0/90/45): 1.42 / 1.22 / 1.5
Luminous Opening: Rectangular (W 3.88' x L: 0.39' x H: 0')
CIE Type: Direct

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	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				86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73				73
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63				63
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	66	61	56	54				54
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	48				48
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42				42
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	44	39	37				37
8	63	50	42	36	61	49	41	36	48	41	36	47	40	35	45	40	35	33				33
9	59	46	38	32	57	45	38	32	44	37	32	43	37	32	42	36	32	30				30
10	55	42	35	29	54	42	34	29	41	34	29	40	34	29	39	33	29	27				27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	9987	9987	9987	9987	9987
5°	11464	10891	10000	9119	8896
10°	13116	12083	9952	8440	8042
15°	14266	13073	9872	7858	7354
20°	15852	13573	9759	7315	6776
25°	18446	14217	9621	6894	6379
30°	19862	15157	9478	6538	6053
35°	17064	16305	9266	6255	5791
40°	12571	17228	8932	6001	5552
45°	9284	16996	8517	5779	5264
50°	7355	15425	8009	5538	5051
55°	6213	12875	7421	5198	4860
60°	5353	10517	6874	4878	4498
65°	4647	8489	6259	4478	3917
70°	4075	6448	5731	4052	3427
75°	3457	4696	5017	3581	3243
80°	2689	3397	4195	3147	2689
85°	2365	2495	3360	2683	2455

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 16996 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.2	3.6
10°-20°	400.1	10.7
20°-30°	638.2	17.1
30°-40°	774.9	20.7
40°-50°	698.3	18.7
50°-60°	536.9	14.4
60°-70°	348.4	9.3
70°-80°	167.7	4.5
80°-90°	39.7	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°	1173.6	31.4
0°-40°	1948.5	52.1
0°-60°	3183.7	85.1
0°-90°	3739.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3739.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1405	1405	1405	1405	1405	
5°	1607	1526	1402	1278	1247	160
15°	1939	1777	1342	1068	1000	556
25°	2352	1813	1227	879	813	1076
35°	1967	1879	1068	721	667	1203
45°	924	1691	847	575	524	734
55°	501	1039	599	420	392	455
65°	276	505	372	266	233	277
75°	126	171	183	130	118	135
85°	29	31	41	33	30	33
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°	1405.1	1405.1	1405.1	1405.1	1405.1	1405.1	1405.1	1405.1	1405.1	1405.1	1405.1
2.5°	1486.4	1492.0	1487.5	1490.3	1485.9	1483.6	1478.1	1469.7	1461.3	1453.5	1453.0
5°	1606.8	1605.6	1601.2	1595.1	1590.6	1579.5	1573.9	1554.9	1542.1	1526.5	1518.7
7.5°	1721.5	1718.7	1712.1	1703.7	1699.8	1685.3	1669.7	1645.8	1625.7	1601.2	1582.8
10°	1817.4	1816.8	1811.8	1806.2	1791.2	1775.0	1760.0	1734.9	1704.8	1674.2	1648.5
12.5°	1887.5	1884.8	1878.6	1869.2	1856.9	1845.8	1825.7	1802.9	1766.1	1734.9	1699.8
15°	1938.8	1937.7	1928.8	1925.4	1901.5	1885.9	1859.1	1836.3	1807.9	1776.7	1738.8
17.5°	2006.8	2009.0	2001.2	1982.3	1960.5	1936.6	1898.7	1861.4	1821.8	1785.6	1755.0
20°	2095.9	2090.3	2077.0	2054.1	2015.1	1985.6	1947.7	1901.5	1848.0	1794.5	1750.5
22.5°	2215.1	2209.0	2187.8	2160.0	2111.0	2056.9	1999.0	1929.9	1868.6	1807.3	1749.4
25°	2352.2	2340.5	2309.3	2279.2	2209.6	2152.2	2065.8	1983.4	1894.2	1812.9	1747.7
27.5°	2426.8	2426.8	2412.4	2379.5	2324.3	2239.7	2151.6	2041.9	1938.8	1827.4	1734.9
30°	2420.2	2416.3	2421.8	2407.9	2372.3	2308.7	2221.3	2105.9	1974.5	1846.9	1736.0
32.5°	2247.5	2249.1	2282.6	2305.4	2323.2	2307.6	2250.8	2146.6	2015.7	1865.8	1731.6
35°	1966.7	1971.1	2030.2	2069.2	2148.8	2194.5	2207.9	2151.6	2034.1	1879.2	1723.8
37.5°	1645.8	1645.8	1714.3	1773.3	1862.5	1975.0	2059.1	2080.3	2022.9	1878.6	1717.1
40°	1354.9	1353.3	1407.3	1479.7	1575.0	1699.2	1824.6	1932.1	1946.0	1856.9	1693.7
42.5°	1108.7	1105.9	1165.0	1205.1	1305.4	1416.2	1582.8	1734.9	1821.8	1789.5	1659.1
45°	923.7	921.5	959.9	1005.6	1076.4	1191.7	1331.5	1500.3	1646.3	1690.9	1594.5
47.5°	784.4	785.6	806.2	844.6	904.8	987.2	1112.6	1269.1	1449.6	1552.7	1513.2
50°	665.2	669.1	684.7	713.7	757.7	824.0	931.5	1073.0	1258.6	1395.0	1403.4
52.5°	576.1	581.6	598.4	614.0	650.7	697.5	781.1	903.7	1056.9	1220.7	1279.2
55°	501.4	504.2	513.7	530.4	557.7	596.7	657.4	751.0	893.1	1039.0	1142.1
57.5°	439.0	439.0	445.1	456.8	478.6	513.7	554.3	631.8	751.6	883.6	993.4
60°	376.6	378.8	383.3	396.1	410.6	437.3	476.9	525.9	629.6	739.9	858.0
62.5°	324.2	328.1	332.6	338.7	352.1	371.0	398.9	444.0	513.7	615.6	720.9
65°	276.3	280.2	280.8	288.0	296.9	312.5	333.7	366.6	424.5	504.8	591.7
67.5°	234.0	235.7	237.3	242.9	251.3	261.3	275.2	299.7	345.4	399.5	484.1
70°	196.1	197.2	197.8	203.9	207.8	216.7	224.0	239.6	268.5	310.3	376.1
72.5°	160.5	158.8	158.2	163.2	164.9	172.2	181.1	192.2	207.8	237.3	286.4
75°	125.9	126.5	127.0	129.8	130.4	133.7	139.3	146.5	153.8	171.0	202.2
77.5°	96.9	94.7	94.7	98.1	99.2	99.7	103.6	107.5	111.4	121.5	133.7
80°	65.7	66.9	66.9	66.9	67.4	68.5	70.8	74.1	76.9	83.0	85.2
82.5°	46.8	46.8	46.2	47.4	47.9	48.5	48.5	48.5	50.1	51.8	54.0
85°	29.0	29.5	27.9	29.0	29.5	29.5	29.5	29.5	31.2	30.6	31.2
87.5°	12.3	12.8	12.8	13.4	13.4	13.9	13.4	13.9	13.4	13.4	13.9
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°	1405.1	1405.1	1405.1	1405.1	1405.1	1405.1	1405.1	1405.1	1405.1	1405.1	1405.1
2.5°	1451.3	1444.6	1441.3	1434.6	1425.7	1420.1	1414.5	1406.7	1400.6	1391.1	1382.8
5°	1504.8	1491.4	1479.2	1462.5	1446.3	1432.4	1417.9	1401.7	1387.2	1371.1	1353.8
7.5°	1564.4	1543.2	1517.6	1488.1	1463.0	1441.3	1416.8	1392.8	1371.1	1345.5	1322.1
10°	1621.8	1587.8	1553.8	1514.3	1477.5	1445.2	1412.3	1378.9	1350.5	1318.7	1289.8
12.5°	1666.4	1634.1	1583.4	1534.3	1486.4	1444.6	1403.4	1362.7	1325.4	1290.3	1255.8
15°	1705.4	1651.9	1609.0	1555.5	1497.0	1440.2	1388.9	1341.6	1296.4	1255.2	1220.1
17.5°	1716.5	1668.6	1621.8	1559.4	1496.4	1431.8	1372.8	1316.5	1266.4	1220.7	1181.1
20°	1715.4	1666.9	1616.2	1556.6	1489.8	1419.0	1353.3	1290.3	1233.5	1181.1	1138.8
22.5°	1698.7	1651.9	1600.6	1540.5	1472.5	1399.5	1330.4	1260.8	1198.9	1144.3	1100.9
25°	1680.9	1621.8	1568.3	1507.6	1443.0	1375.5	1302.0	1226.8	1162.2	1105.3	1056.3
27.5°	1665.3	1594.5	1528.8	1469.1	1402.8	1342.1	1269.1	1190.6	1124.3	1064.7	1014.0
30°	1640.2	1565.5	1485.9	1420.7	1356.6	1293.1	1226.2	1154.9	1082.5	1021.8	971.1
32.5°	1618.5	1524.3	1437.9	1364.4	1300.3	1244.6	1180.6	1112.0	1041.3	983.3	928.7
35°	1594.5	1482.0	1391.7	1305.4	1241.3	1180.6	1129.9	1068.0	997.8	936.5	887.5
37.5°	1566.1	1438.5	1334.9	1246.9	1180.6	1118.2	1072.5	1017.3	953.8	893.1	844.6
40°	1534.3	1393.9	1274.7	1183.9	1112.6	1050.2	1011.7	962.7	908.7	848.5	803.4
42.5°	1494.2	1346.6	1220.1	1120.9	1041.8	985.6	947.1	906.4	856.9	804.5	755.5
45°	1443.5	1287.5	1154.9	1050.2	972.2	917.6	877.5	847.4	807.8	758.8	712.6
47.5°	1381.7	1225.7	1088.1	979.4	904.2	851.8	814.5	784.4	754.4	712.0	668.0
50°	1299.8	1154.9	1022.9	912.0	832.3	781.7	748.2	724.3	697.0	662.4	622.3
52.5°	1209.5	1075.3	946.0	842.4	765.5	714.8	680.3	660.2	639.6	611.2	576.6
55°	1104.8	995.6	872.5	771.1	695.9	645.7	618.4	598.9	581.6	559.9	530.9
57.5°	993.9	898.1	791.1	697.5	626.8	579.4	555.5	539.3	524.8	509.2	485.3
60°	877.5	809.5	708.1	622.3	560.5	521.5	498.6	483.6	470.2	457.4	439.6
62.5°	756.0	699.8	624.0	551.0	495.8	459.1	442.4	429.5	415.6	404.5	391.7
65°	632.9	600.6	548.2	479.7	429.0	398.9	382.7	372.2	365.5	352.7	342.6
67.5°	520.9	503.1	458.5	412.3	373.3	346.0	330.9	323.1	315.9	309.8	298.6
70°	414.5	401.7	376.1	343.2	312.5	289.1	278.0	275.8	265.8	259.6	254.1
72.5°	315.9	312.5	291.4	276.9	259.6	241.2	232.9	228.4	221.7	216.2	213.9
75°	224.5	229.5	222.9	215.6	207.3	192.2	185.0	182.7	176.6	174.9	172.2
77.5°	153.2	160.5	162.7	159.3	155.4	150.4	145.4	143.2	137.1	135.9	134.3
80°	96.4	107.0	110.9	110.3	108.6	109.2	103.1	102.5	99.7	98.1	99.7
82.5°	58.5	64.1	71.3	73.0	70.8	71.9	70.2	68.0	68.0	69.1	66.9
85°	31.8	32.3	35.7	37.9	40.7	42.9	40.7	41.2	40.7	40.7	39.0
87.5°	13.9	14.5	14.5	13.9	15.0	16.2	18.4	19.5	18.9	17.3	15.0
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°	1405.1	1405.1	1405.1	1405.1	1405.1	1405.1	1405.1	1405.1	1405.1	1405.1	1405.1
2.5°	1376.1	1372.2	1365.5	1359.9	1347.1	1338.2	1337.1	1337.7	1336.5	1335.4	1334.9
5°	1342.7	1329.9	1317.6	1307.0	1292.5	1278.1	1271.4	1268.6	1267.5	1261.3	1264.7
7.5°	1307.0	1287.5	1273.0	1253.0	1235.7	1223.5	1211.8	1206.2	1205.1	1196.7	1194.5
10°	1269.1	1245.7	1224.0	1204.0	1186.7	1169.4	1155.5	1150.5	1143.8	1137.1	1127.1
12.5°	1231.8	1202.8	1178.9	1156.6	1133.2	1113.7	1102.6	1095.3	1087.0	1080.8	1077.5
15°	1187.2	1162.7	1133.2	1109.2	1085.3	1068.0	1053.0	1039.6	1031.8	1026.8	1012.9
17.5°	1147.1	1114.8	1087.0	1064.1	1037.9	1018.4	1002.8	991.7	978.3	968.3	959.4
20°	1104.2	1070.8	1045.2	1017.9	991.1	967.2	947.7	938.8	929.3	919.8	914.8
22.5°	1058.0	1029.0	1000.0	971.6	943.2	917.6	905.3	892.5	884.2	874.7	868.0
25°	1017.9	986.1	957.1	925.4	894.2	879.1	862.4	849.6	842.9	833.5	826.2
27.5°	975.0	944.3	909.8	876.9	858.5	832.9	821.8	811.7	802.8	793.4	788.3
30°	934.9	899.2	864.7	839.0	815.1	796.7	786.1	773.9	761.6	757.1	750.5
32.5°	892.5	854.1	824.0	798.4	778.3	756.0	746.0	736.0	724.3	718.7	712.6
35°	848.5	811.2	781.7	758.3	737.6	720.9	709.8	699.2	692.0	683.6	679.1
37.5°	802.3	770.0	741.5	718.1	699.2	685.8	671.9	663.5	653.5	645.7	642.4
40°	758.3	729.3	702.0	680.3	663.0	646.8	634.6	624.0	617.9	611.2	605.6
42.5°	718.7	688.6	665.2	642.4	626.8	611.2	598.9	591.1	580.5	577.7	569.9
45°	676.4	648.5	625.1	603.9	587.8	575.0	560.5	551.0	544.3	537.6	534.8
47.5°	633.5	607.8	586.1	566.6	549.9	535.4	524.3	514.2	507.0	500.9	497.5
50°	591.7	569.4	547.7	528.7	511.4	500.9	487.5	476.3	470.8	464.1	460.2
52.5°	547.7	529.3	505.9	489.7	473.6	459.6	446.3	439.0	433.4	427.9	425.1
55°	506.4	486.9	466.9	449.6	434.0	419.5	408.9	403.4	396.1	392.8	392.2
57.5°	464.1	444.0	427.3	411.7	393.9	382.7	373.3	366.6	360.5	357.7	357.7
60°	417.8	401.7	386.1	368.8	356.0	343.2	333.2	328.7	322.6	321.5	317.6
62.5°	375.5	360.5	345.4	329.3	317.6	304.7	297.5	291.4	288.0	283.6	279.1
65°	331.5	318.1	303.6	289.7	280.2	266.3	259.6	252.4	248.5	243.5	237.9
67.5°	289.1	276.3	263.0	250.2	242.4	229.0	224.5	215.6	212.8	207.3	202.2
70°	244.6	235.7	225.1	212.3	205.6	195.0	190.5	182.2	177.7	174.4	171.6
72.5°	206.1	197.8	185.5	177.2	168.8	162.1	154.9	151.0	147.1	144.3	143.7
75°	168.3	157.7	150.4	142.6	137.1	130.4	127.0	124.2	122.6	120.9	119.2
77.5°	128.7	124.2	117.0	109.2	104.7	102.0	99.7	98.6	96.9	96.4	94.7
80°	95.8	89.7	85.2	82.5	79.1	76.9	75.2	71.3	69.1	68.0	66.9
82.5°	63.5	61.8	58.5	55.7	52.9	52.4	50.7	49.6	49.0	49.0	48.5
85°	38.4	34.0	34.0	33.4	33.4	32.9	31.8	31.8	30.6	32.3	32.3
87.5°	15.6	15.6	14.5	14.5	15.0	13.9	13.4	13.4	13.4	12.8	13.4
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: P243767

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1405.1	1405.1	1405.1	1405.1
2.5°	1334.9	1332.1	1332.6	1329.3
5°	1258.6	1256.9	1251.3	1246.9
7.5°	1188.9	1181.7	1181.1	1176.7
10°	1123.7	1117.0	1113.7	1114.3
12.5°	1066.9	1059.7	1059.7	1055.2
15°	1006.2	998.9	1000.0	999.5
17.5°	956.0	951.0	947.1	943.8
20°	907.0	900.9	898.6	895.9
22.5°	861.9	857.4	858.0	858.0
25°	819.0	819.5	814.5	813.4
27.5°	781.1	780.0	778.9	776.6
30°	745.4	741.0	739.9	737.6
32.5°	708.7	708.1	703.7	705.3
35°	671.3	669.7	668.6	667.4
37.5°	636.8	633.5	632.9	631.8
40°	601.7	600.6	595.6	598.4
42.5°	563.8	561.6	561.6	561.6
45°	532.1	525.9	525.9	523.7
47.5°	496.4	494.2	493.1	489.2
50°	461.3	458.0	456.8	456.8
52.5°	425.1	424.5	425.6	423.4
55°	393.3	393.9	393.3	392.2
57.5°	358.8	356.0	356.0	356.6
60°	317.6	317.6	318.7	316.4
62.5°	278.0	276.9	273.0	271.9
65°	237.3	232.9	232.3	232.9
67.5°	201.1	199.5	196.7	197.2
70°	169.9	169.4	166.6	164.9
72.5°	142.1	142.1	140.4	140.4
75°	118.7	117.6	117.0	118.1
77.5°	91.4	88.6	89.7	88.0
80°	66.3	67.4	66.3	65.7
82.5°	49.0	47.9	48.5	47.9
85°	31.2	30.1	30.6	30.1
87.5°	12.8	13.4	13.4	12.3
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P243767

CATALOG NUMBER: S125RDRP-H1270D927-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	17.92	19.46	18.28	19.77	20.09	18.61	20.15	18.98	20.47	20.78
	3H	19.00	20.38	19.38	20.71	21.07	20.09	21.47	20.47	21.80	22.16
	4H	19.36	20.65	19.76	21.00	21.38	20.62	21.91	21.02	22.26	22.64
	6H	19.58	20.77	19.99	21.14	21.53	20.97	22.17	21.38	22.54	22.93
	8H	19.63	20.77	20.06	21.16	21.56	21.07	22.21	21.50	22.60	23.00
	12H	19.67	20.76	20.10	21.14	21.57	21.13	22.22	21.56	22.60	23.03
4H	2H	19.44	20.73	19.84	21.08	21.46	19.49	20.78	19.89	21.13	21.51
	3H	20.48	21.56	20.89	21.96	22.36	21.15	22.22	21.56	22.62	23.02
	4H	20.85	21.81	21.28	22.23	22.66	21.75	22.71	22.18	23.13	23.57
	6H	21.09	21.93	21.55	22.37	22.83	22.18	23.02	22.64	23.46	23.92
	8H	21.15	21.94	21.61	22.38	22.85	22.30	23.09	22.77	23.53	24.00
	12H	21.20	21.90	21.68	22.38	22.85	22.39	23.09	22.87	23.57	24.04
8H	4H	21.21	21.99	21.67	22.43	22.90	21.90	22.68	22.36	23.13	23.60
	6H	21.50	22.15	22.00	22.64	23.12	22.42	23.07	22.92	23.56	24.04
	8H	21.59	22.18	22.11	22.69	23.17	22.60	23.18	23.11	23.69	24.18
	12H	21.68	22.19	22.19	22.68	23.25	22.74	23.25	23.25	23.74	24.31
12H	4H	21.23	21.93	21.71	22.41	22.88	21.89	22.59	22.37	23.07	23.54
	6H	21.53	22.11	22.04	22.62	23.11	22.41	23.00	22.93	23.51	23.99
	8H	21.66	22.18	22.17	22.67	23.24	22.63	23.15	23.14	23.64	24.20