

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: P242808

Luminaire Tested: S125DRP-S1090D830-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P242808
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-S1090D830-X4F0-XX-UDD-A-W
Description: DEFINE 5 DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

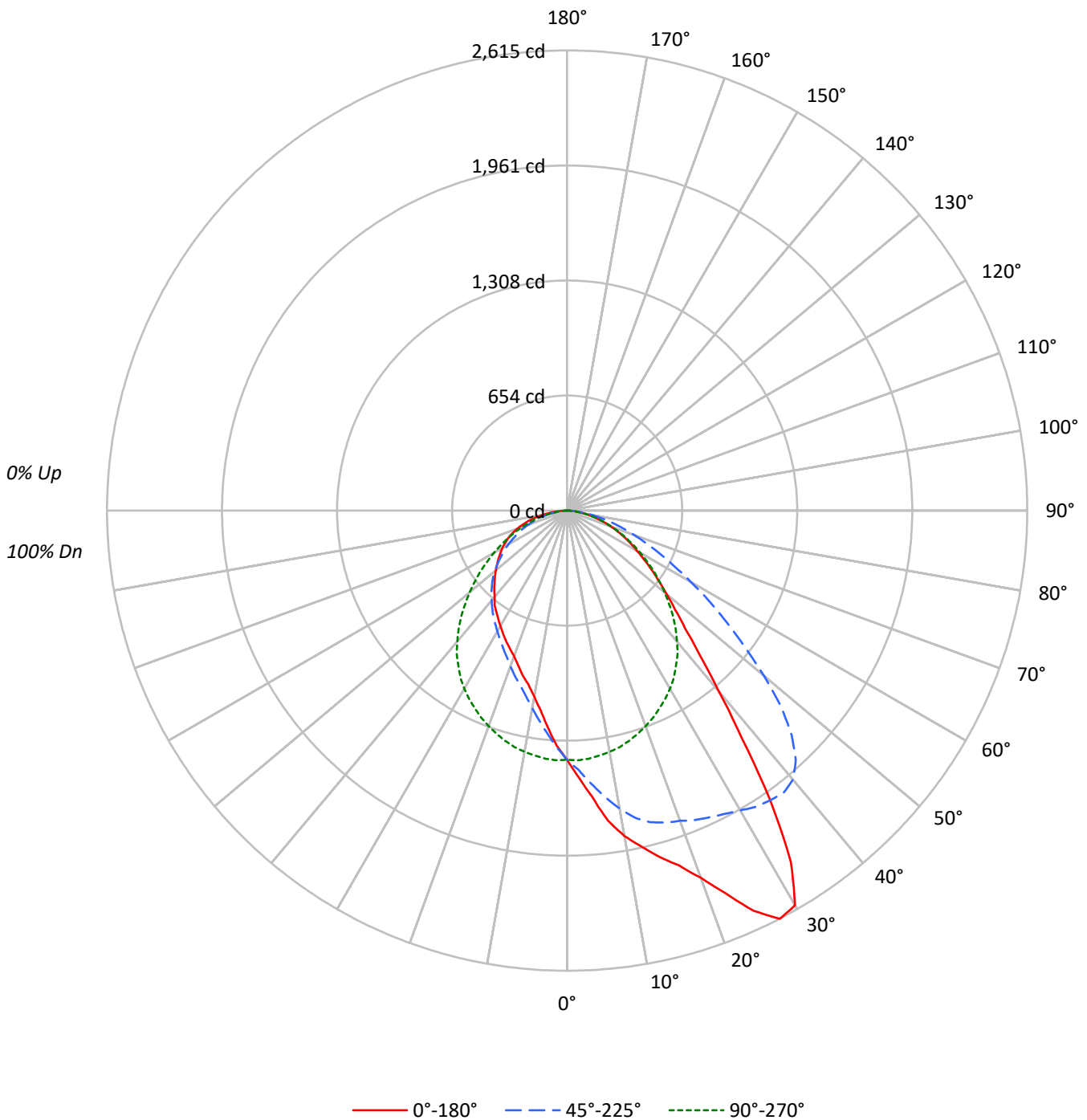
Lumens per Lamp: N/A
Luminaire Lumens: 3995.5 lumens
Efficiency: N/A
Efficacy: 114.8 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.23 / 1.53
Luminous Opening: Rectangular (W 3.88' x L: 0.39' x H: 0')
CIE Type: Direct

Input Watts (W): 34.8
Input Voltage (V): 120
Input Current (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	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°	10063	10063	10063	10063	10063
5°	11653	11101	10097	9081	8841
10°	13558	12412	10045	8227	7746
15°	15008	13491	9972	7561	7145
20°	16799	14191	9854	7123	6663
25°	19680	15076	9723	6754	6428
30°	21257	16147	9593	6506	6224
35°	17478	17441	9349	6336	6090
40°	12422	18523	9010	6195	5943
45°	9544	18128	8554	6071	5859
50°	8147	16127	7988	5921	5847
55°	7253	13695	7432	5704	5898
60°	6543	11566	6826	5501	6048
65°	6044	9853	6216	5225	6206
70°	5494	8379	5582	4871	6294
75°	4852	7162	4918	4490	6239
80°	4085	5877	4011	3811	5706
85°	3237	4265	2895	3140	4607

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 18128 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.3	3.4
10°-20°	405.9	10.2
20°-30°	659.3	16.5
30°-40°	805.7	20.2
40°-50°	731.0	18.3
50°-60°	582.2	14.6
60°-70°	405.5	10.1
70°-80°	216.0	5.4
80°-90°	53.6	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°	1201.5	30.1
0°-40°	2007.2	50.2
0°-60°	3320.4	83.1
0°-90°	3995.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3995.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1416	1416	1416	1416	1416	
5°	1633	1556	1415	1273	1239	164
15°	2040	1834	1355	1028	971	583
25°	2510	1922	1240	861	820	1150
35°	2014	2010	1078	730	702	1236
45°	950	1804	851	604	583	756
55°	585	1105	600	460	476	526
65°	359	586	370	311	369	357
75°	177	261	179	164	227	190
85°	40	52	36	38	56	46
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°	1415.9	1415.9	1415.9	1415.9	1415.9	1415.9	1415.9	1415.9	1415.9	1415.9	1415.9
2.5°	1518.0	1515.6	1513.2	1508.4	1512.0	1501.8	1497.0	1488.6	1478.4	1474.8	1470.5
5°	1633.4	1636.4	1639.4	1626.8	1628.0	1619.6	1600.4	1584.7	1572.1	1555.9	1544.5
7.5°	1776.4	1767.4	1768.0	1760.2	1746.4	1735.0	1716.3	1690.5	1667.1	1640.6	1617.8
10°	1878.6	1879.2	1873.8	1864.2	1849.1	1838.3	1811.9	1786.7	1756.0	1719.9	1694.1
12.5°	1955.5	1958.5	1951.3	1937.5	1932.1	1904.4	1885.2	1854.0	1816.1	1789.1	1746.4
15°	2039.7	2033.0	2028.2	2012.0	1999.4	1974.1	1941.1	1909.8	1870.2	1833.5	1796.9
17.5°	2114.2	2119.6	2111.8	2099.7	2062.5	2033.0	1992.2	1952.5	1905.0	1859.4	1816.7
20°	2221.1	2226.0	2212.1	2186.3	2139.4	2110.0	2051.7	1996.4	1939.3	1876.2	1828.1
22.5°	2354.6	2348.5	2328.7	2286.0	2247.0	2186.3	2122.0	2051.7	1976.6	1903.2	1835.3
25°	2509.6	2484.4	2472.9	2424.3	2370.8	2290.9	2204.3	2105.8	2016.8	1922.5	1840.7
27.5°	2615.4	2605.2	2588.9	2549.3	2488.0	2397.2	2295.1	2177.3	2057.7	1942.3	1839.5
30°	2590.1	2591.3	2592.5	2581.7	2545.7	2481.4	2379.8	2250.6	2101.6	1967.5	1843.7
32.5°	2366.6	2393.6	2419.5	2453.1	2474.7	2475.3	2421.3	2307.7	2153.2	1996.4	1841.3
35°	2014.4	2021.0	2088.9	2156.2	2247.6	2318.5	2366.0	2314.3	2185.1	2010.2	1839.5
37.5°	1628.6	1661.7	1712.7	1788.5	1925.5	2037.3	2183.9	2234.4	2173.7	2021.6	1838.9
40°	1338.9	1369.0	1399.6	1477.2	1588.3	1731.4	1903.8	2051.1	2085.3	1996.4	1820.9
42.5°	1115.4	1137.6	1172.5	1226.0	1314.3	1436.9	1599.8	1803.5	1942.9	1923.1	1783.0
45°	949.5	964.5	991.0	1037.3	1104.6	1203.7	1349.2	1559.5	1742.8	1803.5	1718.7
47.5°	831.7	832.3	854.0	887.0	938.1	1029.4	1138.2	1311.3	1509.0	1649.0	1629.2
50°	736.8	733.8	750.0	777.6	816.1	872.0	974.8	1106.4	1294.5	1458.5	1504.2
52.5°	655.0	656.2	664.7	683.3	713.9	759.6	829.9	945.3	1099.2	1268.6	1364.8
55°	585.3	582.9	594.3	608.2	631.6	662.9	718.1	808.9	939.3	1105.2	1216.9
57.5°	518.0	524.6	529.4	539.1	559.5	581.1	630.4	700.1	807.7	954.9	1073.3
60°	460.3	466.9	470.6	480.2	495.8	513.8	549.9	604.0	691.1	813.7	930.9
62.5°	408.7	413.5	414.1	422.5	434.5	451.9	478.4	521.6	585.9	689.3	803.5
65°	359.4	359.4	361.8	370.8	376.8	392.4	414.1	447.1	502.4	585.9	683.9
67.5°	311.3	314.3	313.7	317.9	323.3	336.5	352.8	380.4	424.3	487.4	568.5
70°	264.4	266.8	266.2	269.2	275.2	283.1	295.7	321.5	351.0	403.2	470.6
72.5°	222.4	223.0	221.2	225.4	228.4	235.0	249.4	260.2	287.3	329.3	381.6
75°	176.7	177.9	179.1	181.5	185.1	188.7	195.9	209.7	227.8	260.8	296.3
77.5°	140.6	137.6	141.2	140.6	142.4	145.4	152.0	159.9	175.5	197.7	227.2
80°	99.8	100.4	100.4	101.0	104.0	105.8	111.2	116.6	128.0	143.6	162.9
82.5°	66.1	67.9	66.7	67.9	70.3	71.5	73.9	78.1	83.5	95.0	107.6
85°	39.7	36.7	37.9	39.1	39.1	39.7	42.1	43.9	47.5	52.3	57.7
87.5°	14.4	15.6	16.2	16.2	16.8	16.8	19.2	19.2	21.0	22.8	25.2
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°	1415.9	1415.9	1415.9	1415.9	1415.9	1415.9	1415.9	1415.9	1415.9	1415.9	1415.9
2.5°	1466.9	1462.7	1457.9	1449.5	1439.3	1433.9	1425.5	1420.1	1409.2	1400.2	1390.6
5°	1530.6	1515.0	1500.6	1482.0	1461.5	1448.3	1432.7	1415.3	1397.2	1378.6	1358.2
7.5°	1594.3	1568.5	1540.3	1510.8	1482.0	1454.9	1429.7	1403.8	1380.4	1351.0	1326.3
10°	1658.6	1623.8	1586.5	1542.7	1500.0	1462.7	1424.9	1391.8	1358.2	1322.1	1290.3
12.5°	1722.9	1673.7	1617.2	1567.9	1514.4	1467.5	1421.3	1376.8	1332.3	1291.5	1253.0
15°	1746.4	1705.5	1656.8	1588.3	1530.6	1468.7	1409.8	1355.2	1304.1	1259.6	1212.7
17.5°	1769.2	1716.9	1665.3	1599.2	1524.0	1457.3	1390.6	1331.1	1274.6	1218.7	1176.1
20°	1774.6	1720.5	1665.9	1601.6	1524.0	1444.7	1378.0	1302.9	1241.0	1182.7	1127.4
22.5°	1772.8	1709.7	1649.0	1582.3	1507.2	1435.7	1351.6	1274.6	1206.1	1149.0	1090.7
25°	1759.6	1694.1	1619.6	1552.9	1478.4	1400.8	1319.1	1239.8	1171.3	1105.8	1048.7
27.5°	1751.8	1668.9	1587.1	1510.2	1438.7	1367.2	1287.9	1206.1	1131.0	1064.3	1011.4
30°	1734.4	1641.2	1546.3	1465.1	1391.2	1322.1	1248.2	1168.9	1089.5	1024.6	966.9
32.5°	1718.7	1606.4	1504.8	1414.7	1335.3	1268.6	1201.9	1127.4	1049.9	983.8	926.1
35°	1697.7	1572.1	1457.3	1357.6	1274.0	1204.9	1147.8	1077.5	1006.0	942.3	887.0
37.5°	1673.1	1527.6	1406.2	1302.3	1211.5	1139.4	1085.3	1030.6	959.1	896.6	847.4
40°	1643.0	1479.6	1349.2	1242.2	1147.2	1071.5	1022.2	971.1	914.1	857.0	804.1
42.5°	1605.2	1436.3	1291.5	1174.3	1080.5	1007.2	954.9	913.5	864.8	812.5	764.4
45°	1557.1	1382.2	1228.4	1104.6	1009.6	936.9	883.4	851.0	813.1	762.6	721.2
47.5°	1493.4	1320.9	1162.3	1034.2	936.3	869.0	817.9	786.1	758.4	718.7	679.7
50°	1402.6	1250.6	1089.5	962.7	864.8	796.9	750.6	722.4	699.5	670.7	638.8
52.5°	1301.1	1162.3	1018.0	893.0	796.3	729.6	684.5	660.5	642.4	623.8	592.5
55°	1192.3	1072.1	935.1	816.1	726.6	661.1	621.4	599.8	584.1	568.5	549.3
57.5°	1075.1	977.8	852.2	741.0	658.0	596.8	559.5	537.3	524.6	516.2	504.2
60°	950.1	869.6	765.0	665.9	585.3	532.4	496.4	480.2	469.9	463.3	454.9
62.5°	834.1	771.6	676.7	588.3	520.4	471.2	439.9	424.3	414.7	412.3	405.6
65°	720.5	669.5	589.5	514.4	454.3	411.7	384.6	369.6	363.6	360.0	360.6
67.5°	606.4	573.3	506.6	440.5	391.2	353.4	331.1	319.7	316.7	311.3	311.3
70°	503.6	480.2	426.1	370.2	327.5	299.9	280.6	268.6	265.6	263.2	262.6
72.5°	412.9	393.0	348.0	305.9	268.6	245.2	230.2	224.2	218.7	217.5	217.5
75°	323.9	312.5	275.2	239.8	213.3	196.5	185.7	179.1	175.5	174.9	175.5
77.5°	244.6	233.8	207.9	181.5	164.1	150.8	140.6	138.8	134.0	134.6	133.4
80°	173.1	166.5	151.4	131.6	117.8	107.0	102.2	98.0	96.8	95.0	96.8
82.5°	113.6	106.4	97.4	86.5	75.7	70.3	65.5	64.9	64.3	63.7	63.7
85°	61.9	62.5	56.5	46.9	42.1	38.5	35.5	35.5	34.9	34.3	34.9
87.5°	26.4	25.2	22.8	21.0	18.0	16.2	15.6	16.2	14.4	13.8	14.4
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°	1415.9	1415.9	1415.9	1415.9	1415.9	1415.9	1415.9	1415.9	1415.9	1415.9	1415.9
2.5°	1385.2	1378.6	1373.2	1361.2	1354.6	1345.5	1338.3	1346.1	1337.7	1341.3	1335.9
5°	1348.0	1331.1	1319.1	1301.7	1286.7	1272.8	1262.6	1260.8	1256.0	1253.6	1246.4
7.5°	1303.5	1284.2	1264.4	1242.8	1224.8	1205.5	1194.1	1183.3	1176.7	1168.3	1161.7
10°	1265.0	1236.8	1212.7	1185.1	1161.1	1140.0	1123.2	1114.8	1107.0	1095.5	1091.3
12.5°	1217.5	1188.1	1157.4	1127.4	1104.6	1080.5	1066.7	1052.9	1048.1	1034.9	1034.2
15°	1181.5	1137.6	1108.8	1078.7	1046.9	1027.6	1015.6	1001.8	995.8	986.8	980.2
17.5°	1137.0	1097.4	1061.3	1030.6	1001.8	986.2	970.5	960.9	950.7	944.1	933.3
20°	1087.7	1050.5	1014.4	981.4	960.3	941.7	929.7	920.7	909.9	906.8	896.0
22.5°	1046.3	1004.2	969.9	943.5	920.1	898.4	885.2	879.8	873.2	862.4	862.4
25°	1000.6	957.9	928.5	900.8	880.4	861.2	852.2	844.3	837.1	830.5	828.1
27.5°	962.1	924.3	888.2	863.0	845.5	827.5	819.7	809.5	804.1	798.7	791.5
30°	921.3	882.2	851.6	827.5	808.3	792.7	784.3	777.6	772.8	768.0	764.4
32.5°	879.2	843.7	814.3	790.9	771.6	760.8	753.6	749.4	744.0	738.0	733.2
35°	843.1	803.5	774.6	754.2	739.2	730.2	721.8	717.5	711.5	711.5	706.7
37.5°	800.5	765.6	739.8	721.2	707.9	699.5	689.9	687.5	683.3	680.9	679.1
40°	763.2	731.4	707.3	688.7	674.3	667.7	660.5	655.6	653.2	650.2	649.0
42.5°	724.8	694.7	671.9	655.0	643.0	637.6	631.0	628.0	622.6	618.4	617.8
45°	685.7	656.2	635.2	621.4	610.6	604.0	599.8	592.5	590.1	585.3	584.7
47.5°	649.6	620.8	599.8	588.3	578.7	573.9	567.3	559.5	556.5	553.5	552.9
50°	608.2	582.3	563.1	552.3	543.3	535.5	528.8	524.0	522.2	522.2	523.4
52.5°	566.1	545.1	529.4	515.6	507.2	498.8	492.8	490.4	487.4	491.0	493.4
55°	525.2	503.0	491.0	478.4	469.9	460.3	457.3	456.1	454.3	459.1	461.5
57.5°	481.4	466.3	451.9	438.7	431.5	425.5	420.7	420.1	423.7	424.9	432.1
60°	439.9	421.9	409.3	399.6	390.6	387.0	385.8	384.6	387.0	393.6	403.8
62.5°	394.2	380.4	366.6	360.0	354.0	347.4	347.4	348.6	354.0	361.8	372.0
65°	349.8	337.1	328.1	319.7	314.3	310.7	311.9	314.3	319.7	329.9	341.3
67.5°	304.1	295.7	287.3	279.4	274.0	274.6	275.2	278.2	284.9	296.9	307.7
70°	260.2	250.6	244.0	241.0	236.8	234.4	238.0	244.0	249.4	260.2	269.2
72.5°	216.3	208.5	203.7	201.9	200.7	198.9	199.5	206.1	213.9	224.8	235.6
75°	173.1	170.1	166.5	164.1	162.3	163.5	164.7	170.7	176.7	188.1	200.1
77.5°	134.0	130.4	128.0	127.4	126.2	126.8	129.8	134.6	140.6	149.0	158.7
80°	95.6	94.4	93.1	92.5	92.5	93.1	98.0	101.0	106.4	114.2	121.4
82.5°	63.1	62.5	62.5	62.5	63.1	63.1	65.5	69.7	73.9	79.3	85.3
85°	36.7	35.5	37.3	37.9	36.7	38.5	39.7	42.1	43.9	46.9	49.9
87.5°	15.0	16.2	15.6	16.2	16.2	17.4	16.8	19.2	20.4	21.6	21.0
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: P242808

CATALOG NUMBER: S125DRP-S1090D830-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1415.9	1415.9	1415.9	1415.9
2.5°	1332.3	1336.5	1332.9	1337.7
5°	1243.4	1238.0	1241.6	1239.2
7.5°	1161.1	1156.2	1149.0	1146.6
10°	1084.7	1078.1	1077.5	1073.3
12.5°	1028.8	1022.8	1014.4	1013.2
15°	976.6	971.8	967.5	971.1
17.5°	932.1	927.9	926.7	923.1
20°	890.6	887.6	888.8	881.0
22.5°	857.6	851.0	849.8	849.8
25°	822.7	819.7	816.7	819.7
27.5°	792.1	789.1	787.9	788.5
30°	764.4	758.4	759.0	758.4
32.5°	734.4	730.8	729.6	728.4
35°	704.9	704.9	701.9	701.9
37.5°	677.9	677.3	675.5	676.7
40°	646.6	646.0	644.2	640.6
42.5°	616.6	614.2	613.6	613.0
45°	584.7	584.7	583.5	582.9
47.5°	553.5	554.7	557.1	556.5
50°	525.8	526.4	528.2	528.8
52.5°	495.2	499.4	501.8	501.2
55°	466.9	471.2	475.4	476.0
57.5°	438.7	444.1	448.3	449.5
60°	409.9	417.7	423.1	425.5
62.5°	382.2	391.2	396.6	396.6
65°	351.6	360.6	365.4	369.0
67.5°	319.7	328.7	333.5	336.5
70°	284.3	293.3	300.5	302.9
72.5°	249.4	257.2	262.6	265.6
75°	207.9	218.7	224.2	227.2
77.5°	168.3	179.1	182.1	183.9
80°	128.6	134.6	138.8	139.4
82.5°	91.3	96.2	96.8	98.6
85°	54.1	56.5	57.1	56.5
87.5°	22.2	21.6	21.6	22.8
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P242808
 CATALOG NUMBER: S125DRP-S1090D830-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	18.68	20.25	19.04	20.56	20.87	18.65	20.22	19.02	20.53	20.85
	3H	20.05	21.46	20.43	21.79	22.15	20.08	21.49	20.46	21.82	22.18
	4H	20.54	21.87	20.94	22.21	22.59	20.57	21.89	20.97	22.24	22.62
	6H	20.88	22.10	21.29	22.47	22.86	20.88	22.11	21.29	22.47	22.86
	8H	20.97	22.14	21.40	22.53	22.93	20.96	22.13	21.39	22.52	22.92
	12H	21.02	22.14	21.45	22.52	22.95	21.00	22.12	21.43	22.50	22.93
4H	2H	20.18	21.51	20.58	21.86	22.23	19.73	21.05	20.13	21.40	21.78
	3H	21.53	22.63	21.94	23.03	23.43	21.39	22.49	21.80	22.89	23.29
	4H	22.04	23.03	22.47	23.45	23.88	21.95	22.94	22.38	23.36	23.79
	6H	22.41	23.28	22.87	23.72	24.18	22.32	23.19	22.78	23.63	24.09
	8H	22.51	23.32	22.97	23.77	24.23	22.42	23.23	22.88	23.67	24.14
	12H	22.58	23.30	23.06	23.78	24.25	22.47	23.20	22.95	23.67	24.14
8H	4H	22.52	23.33	22.98	23.78	24.24	22.29	23.10	22.75	23.54	24.01
	6H	22.97	23.64	23.47	24.13	24.61	22.79	23.46	23.28	23.95	24.43
	8H	23.12	23.72	23.63	24.23	24.71	22.94	23.54	23.45	24.05	24.53
	12H	23.22	23.75	23.73	24.24	24.81	23.04	23.57	23.54	24.06	24.62
12H	4H	22.57	23.29	23.05	23.77	24.24	22.31	23.03	22.79	23.51	23.98
	6H	23.05	23.66	23.57	24.17	24.65	22.84	23.44	23.35	23.95	24.43
	8H	23.25	23.78	23.76	24.27	24.83	23.04	23.58	23.55	24.07	24.63