

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: P243492

Luminaire Tested: S124DRP-H1195D927-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P243492
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-60)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DRP-H1195D927-X4F0-XX-UDD-A-W
Description: DEFINE 4 DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

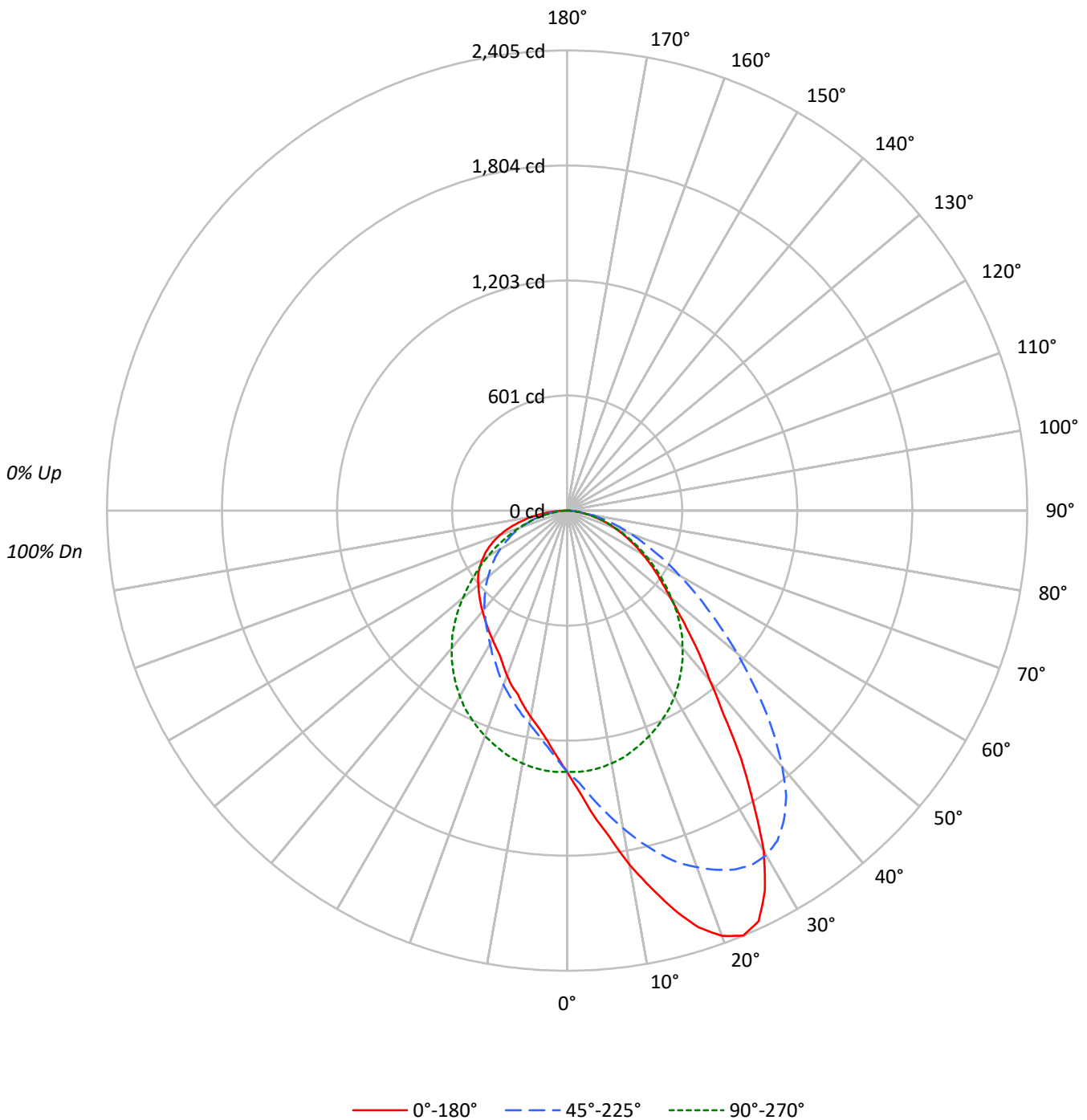
Lumens per Lamp: N/A
Luminaire Lumens: 3914.0 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Spacing Criteria (0/90/45): 1.35 / 1.22 / 1.45
Luminous Opening: Rectangular (W 3.88' x L: 0.31' x H: 0')
CIE Type: Direct

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	109	105	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87	85					85			
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72					72			
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61					61			
4	84	73	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55	53					53			
5	78	65	56	50	75	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	38	50	43	38	48	42	38	36					36			
8	62	49	41	35	61	48	40	35	47	40	35	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	29	53	41	34	28	40	33	28	39	33	28	38	32	28	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	12133	12133	12133	12133	12133
5°	14277	13463	12165	10997	10738
10°	16967	15222	12109	10218	9887
15°	19873	17073	12003	9660	9157
20°	22378	18763	11863	9176	8686
25°	23224	20300	11705	8655	8175
30°	21091	21353	11506	8269	7995
35°	17206	21439	11233	7993	7944
40°	13473	20294	10881	7803	7978
45°	11276	18301	10443	7627	8125
50°	9677	16003	9831	7458	8368
55°	8841	13867	9170	7330	8773
60°	8101	12034	8489	7211	9093
65°	7429	10430	7770	6972	9446
70°	6835	9138	7009	6747	9730
75°	6086	7865	6161	6295	9719
80°	5078	6388	5047	5820	9695
85°	3865	4773	3804	5232	9087

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 50°
 Vertical Angle: 45°
 Luminance: 19128 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.9	3.4
10°-20°	411.5	10.5
20°-30°	661.1	16.9
30°-40°	755.7	19.3
40°-50°	695.6	17.8
50°-60°	569.0	14.5
60°-70°	405.5	10.4
70°-80°	222.8	5.7
80°-90°	59.9	1.5
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°	1205.5	30.8
0°-40°	1961.2	50.1
0°-60°	3225.8	82.4
0°-90°	3914.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3914.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1365	1365	1365	1365	1365	
5°	1600	1509	1363	1232	1203	161
15°	2160	1855	1304	1050	995	616
25°	2368	2070	1193	882	834	1063
35°	1586	1976	1035	737	732	985
45°	897	1456	831	607	646	700
55°	570	895	592	473	566	512
65°	353	496	369	332	449	353
75°	177	229	179	183	283	189
85°	38	47	37	51	89	45
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°	1365.0	1365.0	1365.0	1365.0	1365.0	1365.0	1365.0	1365.0	1365.0	1365.0	1365.0
2.5°	1469.8	1465.3	1463.1	1460.3	1459.7	1456.9	1451.4	1443.6	1433.5	1423.0	1423.0
5°	1600.1	1599.0	1590.7	1591.2	1580.6	1568.9	1560.0	1548.9	1527.1	1508.8	1495.9
7.5°	1724.9	1736.6	1733.8	1724.9	1709.3	1692.6	1674.8	1659.2	1619.1	1596.8	1578.4
10°	1879.8	1884.3	1876.5	1863.7	1849.7	1817.4	1794.0	1767.8	1724.4	1686.5	1653.1
12.5°	2015.8	2026.4	2012.4	2000.2	1967.3	1943.3	1919.9	1867.6	1821.9	1774.0	1725.5
15°	2159.5	2148.4	2155.6	2125.5	2102.1	2079.3	2019.7	1966.2	1914.4	1855.3	1804.6
17.5°	2284.3	2284.3	2270.9	2251.4	2226.9	2184.0	2124.4	2065.4	2008.0	1930.5	1858.6
20°	2365.7	2371.8	2356.2	2335.6	2306.0	2261.5	2214.1	2150.0	2073.7	1983.5	1902.1
22.5°	2404.7	2405.8	2400.2	2382.9	2359.0	2321.1	2272.6	2210.2	2129.4	2032.5	1947.2
25°	2367.9	2374.0	2372.3	2371.2	2359.0	2337.2	2298.2	2240.3	2166.8	2069.8	1977.9
27.5°	2238.6	2253.7	2266.5	2272.1	2285.4	2286.5	2274.8	2239.7	2179.6	2088.2	1985.7
30°	2054.8	2047.0	2081.5	2098.8	2144.5	2171.8	2191.3	2189.0	2154.5	2080.4	1982.9
32.5°	1809.6	1830.8	1855.3	1896.0	1950.0	2013.5	2061.5	2097.1	2093.8	2045.3	1964.0
35°	1585.6	1585.6	1616.8	1667.0	1724.4	1800.7	1880.9	1947.2	1987.9	1975.7	1918.3
37.5°	1342.7	1357.8	1393.4	1432.4	1502.6	1576.2	1682.0	1770.1	1855.3	1880.9	1851.4
40°	1161.1	1167.8	1205.7	1238.5	1310.4	1386.7	1475.3	1587.9	1685.9	1748.9	1752.8
42.5°	1026.3	1025.7	1041.3	1070.8	1128.8	1196.8	1292.6	1402.9	1517.7	1606.8	1648.6
45°	897.0	895.9	912.1	942.1	983.4	1043.5	1126.6	1236.9	1354.4	1455.8	1521.6
47.5°	787.8	797.8	805.1	828.5	862.5	913.7	985.0	1073.1	1186.2	1299.8	1388.4
50°	699.8	704.2	719.8	731.0	768.9	804.5	861.9	941.0	1038.0	1157.2	1253.0
52.5°	629.6	632.4	641.8	656.3	678.1	709.3	754.9	827.9	915.4	1019.0	1118.2
55°	570.5	568.8	575.0	584.4	603.4	629.6	663.0	718.7	795.1	894.8	986.2
57.5°	512.6	512.6	518.1	524.8	535.4	557.1	590.0	634.0	695.3	783.9	864.7
60°	455.7	459.6	461.9	468.6	477.5	493.6	518.1	552.7	604.5	676.9	757.2
62.5°	405.6	405.6	409.5	411.7	423.4	435.1	453.0	482.5	523.2	587.8	650.2
65°	353.2	356.6	356.6	361.0	371.1	380.0	393.9	416.2	449.6	495.9	554.4
67.5°	308.7	308.7	311.4	313.7	319.2	325.4	337.6	354.9	383.3	420.1	473.0
70°	263.0	264.6	263.5	266.3	269.7	275.8	284.7	299.2	319.8	351.6	390.6
72.5°	221.7	219.5	220.6	223.4	225.1	229.0	234.6	245.7	262.4	288.0	316.5
75°	177.2	176.1	180.0	178.8	181.6	185.0	190.0	198.3	211.2	229.0	250.7
77.5°	138.2	136.5	138.2	139.3	140.4	143.2	147.1	152.1	161.0	172.7	192.2
80°	99.2	98.6	99.7	100.8	101.4	105.9	107.0	112.0	115.9	124.8	134.3
82.5°	65.7	66.9	67.4	68.5	68.0	70.2	71.3	74.7	78.0	82.5	89.7
85°	37.9	36.2	37.9	37.9	37.9	40.7	40.1	42.3	44.6	46.8	51.8
87.5°	13.4	13.4	13.9	14.5	14.5	16.2	15.6	16.7	18.9	18.9	20.6
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°	1365.0	1365.0	1365.0	1365.0	1365.0	1365.0	1365.0	1365.0	1365.0	1365.0	1365.0
2.5°	1419.6	1413.5	1409.0	1396.2	1388.4	1381.2	1374.5	1367.2	1359.4	1349.4	1343.3
5°	1482.6	1469.2	1449.7	1431.9	1411.8	1394.0	1379.5	1363.3	1345.5	1327.1	1311.0
7.5°	1552.2	1527.1	1497.1	1464.2	1433.0	1406.8	1379.5	1353.9	1328.8	1304.3	1281.4
10°	1621.9	1578.4	1538.8	1493.7	1452.5	1412.9	1377.3	1341.6	1310.4	1278.1	1249.1
12.5°	1686.5	1634.1	1576.2	1519.9	1464.7	1413.5	1369.5	1326.0	1285.9	1247.5	1213.5
15°	1736.1	1670.3	1601.8	1534.9	1471.4	1417.9	1360.6	1304.3	1262.5	1215.7	1178.4
17.5°	1792.9	1714.9	1646.9	1566.7	1487.6	1401.2	1340.5	1279.2	1229.1	1183.9	1146.6
20°	1830.8	1745.0	1646.9	1556.1	1474.8	1397.3	1324.3	1254.1	1201.2	1148.8	1103.7
22.5°	1860.9	1772.3	1664.2	1569.5	1467.5	1373.9	1294.8	1225.7	1163.3	1113.7	1070.8
25°	1876.5	1768.4	1665.3	1550.5	1448.6	1358.9	1269.7	1193.4	1130.5	1075.3	1038.5
27.5°	1877.0	1766.2	1644.1	1530.5	1421.3	1324.3	1236.3	1161.1	1090.3	1037.4	993.4
30°	1874.2	1751.7	1623.0	1498.7	1390.1	1290.9	1199.0	1121.0	1056.4	1000.1	958.3
32.5°	1856.4	1731.6	1591.2	1460.8	1342.7	1243.0	1158.3	1080.9	1011.8	960.5	916.5
35°	1816.3	1687.6	1546.6	1412.4	1300.4	1196.8	1113.2	1035.2	973.3	917.6	872.5
37.5°	1765.0	1644.7	1501.5	1361.1	1240.2	1142.2	1063.6	990.1	925.4	874.2	829.0
40°	1700.4	1587.3	1446.4	1300.4	1179.5	1080.3	1006.2	937.7	882.5	830.2	786.1
42.5°	1611.8	1524.9	1380.1	1238.0	1111.5	1017.9	946.0	889.2	832.4	785.0	741.0
45°	1517.1	1438.0	1309.3	1168.3	1046.9	950.5	883.1	830.7	782.2	734.3	698.7
47.5°	1412.4	1347.7	1228.5	1090.9	971.1	885.9	819.6	772.8	728.2	691.4	655.8
50°	1287.6	1253.6	1142.2	1017.4	900.9	813.4	758.8	710.9	678.1	642.4	609.0
52.5°	1171.7	1144.4	1053.6	931.0	825.1	748.3	689.8	651.9	619.5	593.4	566.6
55°	1045.8	1031.8	955.0	849.1	753.3	676.4	626.2	591.7	566.1	541.5	522.0
57.5°	929.9	928.8	860.8	770.0	676.4	611.2	563.3	534.9	512.6	495.3	478.6
60°	811.2	820.7	765.0	682.0	607.8	546.6	503.1	477.5	462.4	446.3	432.3
62.5°	703.7	718.2	667.5	602.3	529.3	479.1	445.7	426.2	409.5	397.8	387.2
65°	600.6	619.0	577.8	519.3	463.5	416.2	387.8	369.4	356.6	349.9	342.6
67.5°	509.8	519.8	492.0	446.3	400.0	358.8	335.4	319.2	308.1	305.3	297.0
70°	419.0	430.7	411.2	369.4	333.7	303.6	282.5	269.7	263.0	259.1	253.5
72.5°	346.0	351.0	331.5	302.5	274.1	249.0	233.4	224.0	216.2	214.5	211.7
75°	270.8	278.0	262.4	240.1	216.7	198.9	187.2	179.4	175.5	172.7	172.7
77.5°	204.5	210.6	201.7	182.2	168.3	152.7	144.9	137.6	135.9	133.2	134.3
80°	145.4	148.2	143.2	129.8	117.6	109.2	102.5	98.6	98.1	95.8	98.1
82.5°	96.4	96.9	91.4	85.2	75.8	71.3	66.9	65.2	64.6	64.6	63.5
85°	53.5	54.6	50.7	46.8	43.5	39.6	38.4	37.3	36.2	37.9	39.0
87.5°	20.6	21.2	20.6	18.9	17.8	16.7	16.2	17.3	15.6	16.7	17.3
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°	1365.0	1365.0	1365.0	1365.0	1365.0	1365.0	1365.0	1365.0	1365.0	1365.0	1365.0
2.5°	1333.8	1329.4	1322.7	1311.5	1303.7	1295.4	1292.0	1293.1	1289.8	1285.3	1286.5
5°	1298.7	1285.9	1274.8	1259.2	1244.7	1232.4	1228.5	1223.5	1219.0	1216.3	1213.5
7.5°	1261.4	1243.6	1226.8	1211.2	1194.5	1178.9	1172.8	1168.3	1166.1	1158.3	1155.0
10°	1225.7	1205.1	1185.1	1166.7	1149.4	1132.1	1126.0	1120.4	1112.6	1109.3	1105.4
12.5°	1187.8	1167.2	1145.5	1123.2	1105.9	1092.0	1081.4	1077.5	1069.7	1066.4	1064.2
15°	1151.1	1126.0	1108.7	1091.5	1065.3	1049.7	1045.2	1031.3	1026.8	1020.1	1015.7
17.5°	1114.3	1090.9	1065.3	1045.2	1029.1	1009.6	999.0	992.8	984.5	978.4	970.0
20°	1078.1	1050.8	1030.7	1005.7	987.8	970.0	956.6	951.1	943.8	935.5	923.8
22.5°	1043.0	1012.9	993.4	970.0	947.7	927.1	916.0	908.2	893.7	892.0	881.4
25°	1001.8	975.0	949.4	924.9	903.1	882.5	875.3	863.0	858.0	848.0	846.3
27.5°	962.8	934.3	906.5	879.7	860.8	846.3	833.5	825.7	820.7	812.9	813.4
30°	922.1	890.9	864.7	840.2	819.6	805.6	797.3	793.4	786.1	785.0	781.1
32.5°	878.6	850.2	822.9	801.2	780.0	767.8	763.9	760.0	755.5	756.1	754.9
35°	835.2	810.1	781.1	761.1	743.8	736.6	730.4	729.3	727.6	728.8	728.8
37.5°	792.8	765.5	741.6	723.2	713.2	703.1	700.3	699.8	700.3	701.5	704.2
40°	751.6	726.5	703.1	688.1	676.9	672.5	668.6	670.3	672.5	676.4	679.7
42.5°	710.4	686.4	666.9	651.9	641.3	639.1	639.6	643.0	643.5	649.1	655.2
45°	666.9	646.3	627.9	616.2	609.5	606.7	607.8	611.2	615.1	622.9	630.7
47.5°	626.8	608.4	592.2	580.5	575.5	574.4	576.6	581.1	590.0	597.8	606.7
50°	586.1	569.4	554.4	543.8	543.2	539.3	544.3	549.9	560.5	571.1	584.4
52.5°	546.0	529.8	517.0	508.7	506.4	506.4	512.6	522.6	532.1	546.0	558.3
55°	504.2	489.7	477.5	474.7	471.3	473.0	479.7	489.7	503.1	518.7	532.1
57.5°	461.3	449.1	440.1	436.2	434.6	440.1	447.9	458.5	475.8	491.4	505.9
60°	420.6	410.1	400.6	399.5	398.4	405.6	415.1	426.2	443.5	459.1	476.9
62.5°	377.2	368.8	362.7	361.0	361.0	368.3	378.9	393.3	409.5	426.2	445.2
65°	333.2	325.9	324.3	322.0	327.0	331.5	342.1	356.0	373.3	391.7	411.7
67.5°	292.5	288.0	284.7	284.7	288.6	297.0	306.4	320.4	338.2	357.7	375.5
70°	251.8	247.4	244.6	247.4	249.6	259.6	269.7	283.0	299.7	318.7	337.6
72.5°	209.5	210.0	210.6	210.0	212.3	221.7	231.8	244.6	260.7	279.1	296.4
75°	172.2	169.4	169.9	171.0	178.3	183.3	193.3	205.6	222.9	239.6	254.1
77.5°	133.7	132.6	135.4	135.4	142.1	148.2	156.6	168.8	183.9	198.9	210.6
80°	98.1	98.6	100.8	101.4	107.0	113.7	122.6	130.9	144.3	154.9	166.0
82.5°	66.3	67.4	70.2	74.1	76.3	80.2	88.0	96.9	106.4	117.6	124.2
85°	38.4	40.1	42.3	45.1	47.4	51.3	56.8	64.1	70.8	76.9	82.5
87.5°	18.9	18.9	20.6	21.7	23.4	25.6	29.5	32.3	36.8	41.2	43.5
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: P243492

CATALOG NUMBER: S124DRP-H1195D927-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1365.0	1365.0	1365.0	1365.0
2.5°	1284.2	1283.7	1281.4	1282.6
5°	1211.8	1206.2	1205.7	1203.4
7.5°	1149.4	1147.7	1147.7	1143.3
10°	1101.5	1096.5	1097.6	1095.4
12.5°	1055.8	1053.0	1049.7	1046.3
15°	1004.5	1004.5	1004.5	995.1
17.5°	964.4	963.9	961.1	960.5
20°	922.6	920.4	913.2	918.2
22.5°	880.3	878.6	872.5	873.6
25°	840.7	839.1	838.0	833.5
27.5°	806.8	807.3	808.4	805.6
30°	781.1	779.5	781.7	778.9
32.5°	757.2	757.2	754.9	755.5
35°	729.9	732.1	732.7	732.1
37.5°	705.9	708.7	710.9	708.7
40°	683.6	685.9	688.1	687.5
42.5°	660.2	664.1	665.8	667.5
45°	637.9	643.0	645.7	646.3
47.5°	615.1	621.2	626.8	626.2
50°	592.8	600.6	605.6	605.1
52.5°	570.5	578.3	584.4	587.2
55°	545.4	555.5	561.0	566.1
57.5°	520.4	531.5	537.1	539.3
60°	492.5	502.5	509.8	511.5
62.5°	461.3	471.9	481.4	483.6
65°	429.0	440.7	447.9	449.1
67.5°	391.7	402.8	410.1	413.4
70°	353.2	361.6	369.4	374.4
72.5°	310.3	320.4	327.6	330.9
75°	265.8	276.9	280.8	283.0
77.5°	219.5	226.2	232.3	232.9
80°	173.3	181.6	183.9	189.4
82.5°	127.6	135.4	133.7	135.9
85°	84.1	86.9	88.6	89.1
87.5°	44.6	46.2	47.4	47.9
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P243492
 CATALOG NUMBER: S124DRP-H1195D927-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	19.24	20.81	19.60	21.13	21.44	19.53	21.10	19.89	21.41	21.73
	3H	20.68	22.10	21.06	22.42	22.79	20.91	22.33	21.29	22.66	23.02
	4H	21.20	22.53	21.60	22.88	23.26	21.40	22.73	21.80	23.08	23.45
	6H	21.55	22.78	21.96	23.14	23.54	21.71	22.94	22.12	23.31	23.70
	8H	21.64	22.82	22.07	23.21	23.61	21.80	22.97	22.22	23.36	23.76
	12H	21.69	22.82	22.12	23.20	23.63	21.84	22.97	22.27	23.35	23.78
4H	2H	20.38	21.71	20.77	22.05	22.43	20.32	21.65	20.72	22.00	22.37
	3H	21.88	22.99	22.29	23.39	23.79	22.02	23.13	22.43	23.53	23.93
	4H	22.45	23.45	22.88	23.87	24.31	22.62	23.62	23.05	24.03	24.47
	6H	22.87	23.74	23.32	24.18	24.64	23.02	23.89	23.47	24.33	24.79
	8H	22.98	23.80	23.44	24.24	24.71	23.12	23.94	23.59	24.38	24.85
	12H	23.06	23.79	23.54	24.27	24.74	23.19	23.92	23.67	24.40	24.87
8H	4H	22.88	23.70	23.34	24.14	24.61	22.96	23.77	23.42	24.22	24.68
	6H	23.38	24.05	23.87	24.54	25.02	23.49	24.17	23.98	24.66	25.13
	8H	23.54	24.15	24.05	24.66	25.14	23.65	24.26	24.16	24.77	25.26
	12H	23.66	24.19	24.16	24.69	25.25	23.77	24.31	24.28	24.80	25.36
12H	4H	22.92	23.65	23.40	24.13	24.60	22.99	23.72	23.47	24.20	24.67
	6H	23.44	24.05	23.96	24.56	25.05	23.55	24.16	24.06	24.67	25.15
	8H	23.66	24.19	24.16	24.69	25.25	23.77	24.31	24.28	24.80	25.36