

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: P243496

Luminaire Tested: S124DRP-H1020D830-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P243496
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-H1020D830-X4F0-XX-UDD-A-W
Description: DEFINE 4 DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

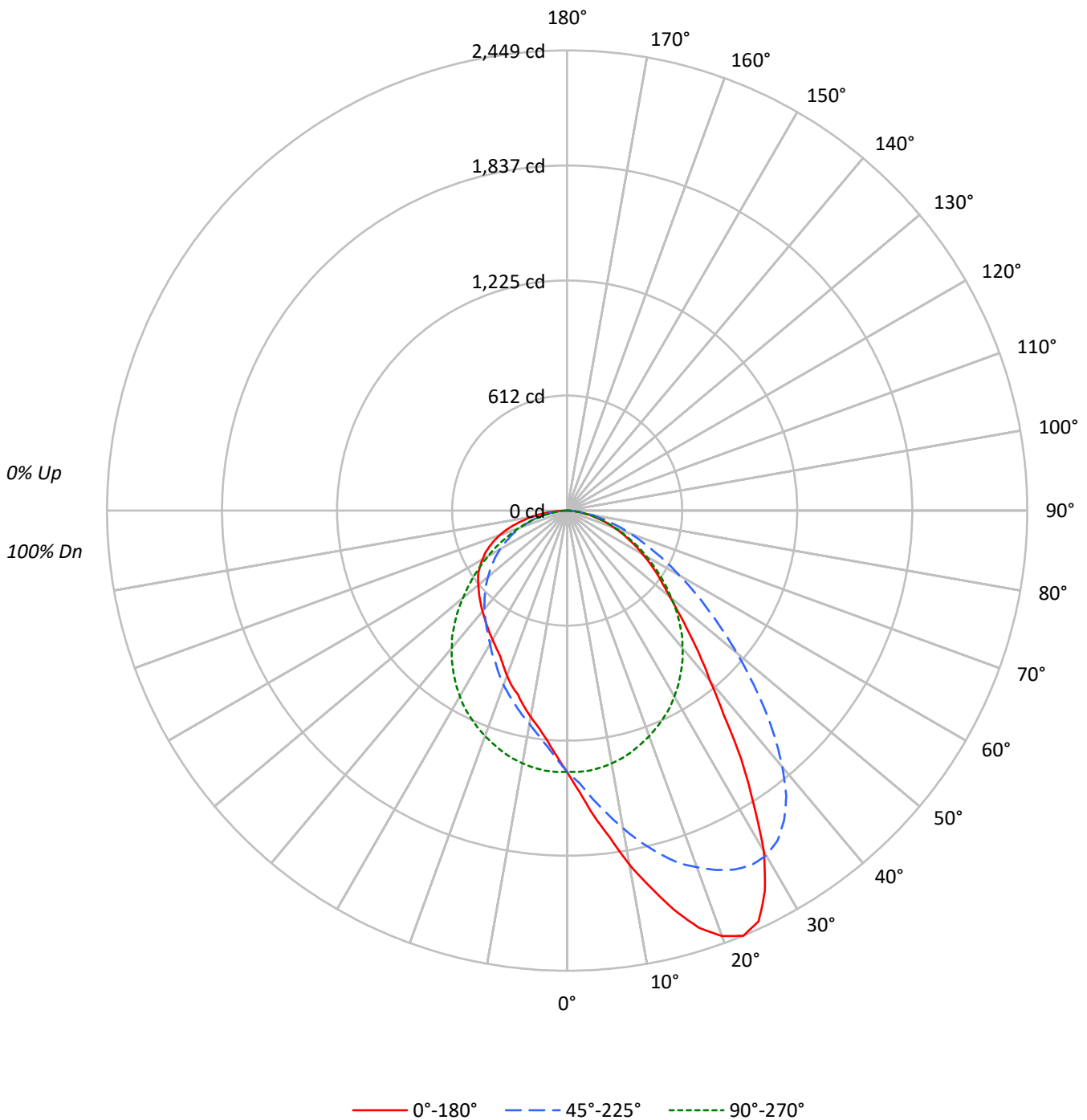
Lumens per Lamp: N/A
Luminaire Lumens: 3986.5 lumens
Efficiency: N/A
Efficacy: 126.6 lumens/watt
Spacing Criteria (0/90/45): 1.35 / 1.22 / 1.45
Luminous Opening: Rectangular (W 3.88' x L: 0.31' x H: 0')
CIE Type: Direct

Input Watts (W): 31.5
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°	12358	12358	12358	12358	12358
5°	14542	13712	12390	11200	10937
10°	17281	15504	12333	10408	10069
15°	20241	17389	12225	9838	9327
20°	22791	19110	12082	9345	8846
25°	23654	20676	11921	8816	8326
30°	21481	21748	11718	8422	8142
35°	17525	21835	11441	8141	8091
40°	13722	20670	11081	7947	8125
45°	11485	18640	10636	7769	8275
50°	9856	16298	10013	7596	8523
55°	9006	14123	9339	7467	8934
60°	8252	12258	8645	7344	9260
65°	7568	10622	7913	7101	9620
70°	6960	9307	7137	6872	9910
75°	6199	8009	6275	6412	9901
80°	5170	6506	5139	5928	9874
85°	3937	4865	3876	5324	9261

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 50°
 Vertical Angle: 45°
 Luminance: 19481 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.3	3.4
10°-20°	419.1	10.5
20°-30°	673.3	16.9
30°-40°	769.7	19.3
40°-50°	708.5	17.8
50°-60°	579.5	14.5
60°-70°	413.0	10.4
70°-80°	227.0	5.7
80°-90°	61.0	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°	1227.8	30.8
0°-40°	1997.5	50.1
0°-60°	3285.5	82.4
0°-90°	3986.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3986.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1390	1390	1390	1390	1390	
5°	1630	1537	1389	1255	1226	164
15°	2200	1890	1328	1069	1014	627
25°	2412	2108	1216	899	849	1082
35°	1615	2012	1054	750	746	1004
45°	914	1483	846	618	658	713
55°	581	911	603	482	576	521
65°	360	505	376	338	457	359
75°	180	233	183	187	288	193
85°	39	48	38	52	91	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°	1390.3	1390.3	1390.3	1390.3	1390.3	1390.3	1390.3	1390.3	1390.3	1390.3	1390.3
2.5°	1497.0	1492.4	1490.1	1487.3	1486.7	1483.9	1478.2	1470.3	1460.1	1449.3	1449.3
5°	1629.7	1628.6	1620.1	1620.7	1609.9	1598.0	1588.9	1577.5	1555.4	1536.7	1523.6
7.5°	1756.8	1768.8	1765.9	1756.8	1741.0	1723.9	1705.8	1689.9	1649.0	1626.3	1607.6
10°	1914.6	1919.1	1911.2	1898.1	1884.0	1851.0	1827.2	1800.5	1756.3	1717.7	1683.6
12.5°	2053.1	2063.8	2049.7	2037.2	2003.7	1979.3	1955.5	1902.1	1855.6	1806.8	1757.4
15°	2199.5	2188.1	2195.5	2164.9	2141.0	2117.8	2057.0	2002.6	1949.8	1889.6	1838.0
17.5°	2326.6	2326.6	2313.0	2293.1	2268.1	2224.4	2163.7	2103.6	2045.1	1966.2	1893.0
20°	2409.4	2415.7	2399.8	2378.8	2348.7	2303.3	2255.1	2189.8	2112.1	2020.2	1937.3
22.5°	2449.1	2450.3	2444.6	2427.0	2402.6	2364.0	2314.7	2251.1	2168.8	2070.1	1983.3
25°	2411.7	2417.9	2416.2	2415.1	2402.6	2380.5	2340.8	2281.7	2206.8	2108.1	2014.5
27.5°	2280.0	2295.4	2308.4	2314.1	2327.7	2328.8	2316.9	2281.2	2219.9	2126.8	2022.4
30°	2092.8	2084.8	2120.0	2137.6	2184.1	2212.0	2231.8	2229.5	2194.4	2118.9	2019.6
32.5°	1843.1	1864.7	1889.6	1931.1	1986.1	2050.8	2099.6	2135.9	2132.5	2083.1	2000.3
35°	1615.0	1615.0	1646.8	1697.8	1756.3	1834.0	1915.7	1983.3	2024.7	2012.2	1953.8
37.5°	1367.6	1382.9	1419.2	1458.9	1530.4	1605.3	1713.2	1802.8	1889.6	1915.7	1885.7
40°	1182.6	1189.4	1228.0	1261.5	1334.7	1412.4	1502.6	1617.3	1717.1	1781.3	1785.2
42.5°	1045.3	1044.7	1060.6	1090.7	1149.7	1218.9	1316.5	1428.9	1545.8	1636.5	1679.1
45°	913.6	912.5	928.9	959.6	1001.6	1062.8	1147.4	1259.8	1379.5	1482.8	1549.7
47.5°	802.4	812.6	820.0	843.8	878.4	930.6	1003.3	1092.9	1208.1	1323.9	1414.1
50°	712.7	717.3	733.2	744.5	783.1	819.4	877.9	958.4	1057.2	1178.6	1276.2
52.5°	641.2	644.1	653.7	668.5	690.6	722.4	768.9	843.2	932.3	1037.9	1138.9
55°	581.1	579.4	585.6	595.3	614.6	641.2	675.3	732.0	809.8	911.3	1004.4
57.5°	522.1	522.1	527.7	534.5	545.3	567.5	600.9	645.8	708.2	798.4	880.7
60°	464.2	468.2	470.4	477.2	486.3	502.8	527.7	562.9	615.7	689.5	771.2
62.5°	413.1	413.1	417.1	419.4	431.3	443.2	461.3	491.4	532.8	598.7	662.2
65°	359.8	363.2	363.2	367.7	377.9	387.0	401.2	423.9	457.9	505.0	564.6
67.5°	314.4	314.4	317.2	319.5	325.2	331.4	343.9	361.5	390.4	427.9	481.8
70°	267.8	269.5	268.4	271.2	274.6	280.9	290.0	304.7	325.7	358.1	397.8
72.5°	225.8	223.6	224.7	227.6	229.3	233.2	238.9	250.2	267.3	293.4	322.3
75°	180.5	179.3	183.3	182.2	185.0	188.4	193.5	202.0	215.1	233.2	255.4
77.5°	140.7	139.0	140.7	141.9	143.0	145.8	149.8	154.9	164.0	175.9	195.8
80°	101.0	100.4	101.6	102.7	103.3	107.8	109.0	114.1	118.0	127.1	136.8
82.5°	67.0	68.1	68.7	69.8	69.2	71.5	72.6	76.0	79.4	84.0	91.4
85°	38.6	36.9	38.6	38.6	38.6	41.4	40.9	43.1	45.4	47.7	52.8
87.5°	13.6	13.6	14.2	14.8	14.8	16.5	15.9	17.0	19.3	19.3	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



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1390.3	1390.3	1390.3	1390.3	1390.3	1390.3	1390.3	1390.3	1390.3	1390.3	1390.3
2.5°	1445.9	1439.6	1435.1	1422.0	1414.1	1406.7	1399.9	1392.5	1384.6	1374.4	1368.1
5°	1510.0	1496.4	1476.5	1458.4	1437.9	1419.8	1405.0	1388.6	1370.4	1351.7	1335.2
7.5°	1580.9	1555.4	1524.8	1491.3	1459.5	1432.8	1405.0	1378.9	1353.4	1328.4	1305.2
10°	1651.9	1607.6	1567.3	1521.4	1479.4	1439.1	1402.8	1366.4	1334.7	1301.7	1272.2
12.5°	1717.7	1664.4	1605.3	1548.0	1491.8	1439.6	1394.8	1350.5	1309.7	1270.5	1235.9
15°	1768.2	1701.2	1631.4	1563.3	1498.7	1444.2	1385.7	1328.4	1285.9	1238.2	1200.2
17.5°	1826.1	1746.6	1677.4	1595.7	1515.1	1427.2	1365.3	1302.9	1251.8	1205.8	1167.8
20°	1864.7	1777.3	1677.4	1584.9	1502.1	1423.2	1348.8	1277.3	1223.4	1170.1	1124.1
22.5°	1895.3	1805.1	1695.0	1598.5	1494.7	1399.4	1318.8	1248.4	1184.9	1134.3	1090.7
25°	1911.2	1801.1	1696.1	1579.2	1475.4	1384.0	1293.2	1215.5	1151.4	1095.2	1057.7
27.5°	1911.8	1798.8	1674.6	1558.8	1447.6	1348.8	1259.2	1182.6	1110.5	1056.6	1011.8
30°	1908.9	1784.1	1653.0	1526.5	1415.8	1314.8	1221.2	1141.7	1075.9	1018.6	976.0
32.5°	1890.8	1763.7	1620.7	1487.9	1367.6	1266.0	1179.7	1100.9	1030.5	978.3	933.5
35°	1849.9	1718.8	1575.3	1438.5	1324.4	1218.9	1133.8	1054.3	991.3	934.6	888.6
37.5°	1797.7	1675.1	1529.3	1386.3	1263.2	1163.3	1083.3	1008.4	942.5	890.3	844.4
40°	1731.9	1616.7	1473.1	1324.4	1201.3	1100.3	1024.8	955.0	898.9	845.5	800.7
42.5°	1641.7	1553.1	1405.6	1260.9	1132.1	1036.7	963.5	905.7	847.8	799.5	754.7
45°	1545.2	1464.6	1333.5	1190.0	1066.3	968.1	899.4	846.1	796.7	747.9	711.6
47.5°	1438.5	1372.7	1251.2	1111.1	989.1	902.3	834.7	787.1	741.7	704.2	667.9
50°	1311.4	1276.8	1163.3	1036.2	917.6	828.5	772.9	724.1	690.6	654.3	620.2
52.5°	1193.4	1165.6	1073.1	948.2	840.4	762.1	702.5	663.9	631.0	604.3	577.1
55°	1065.1	1050.9	972.6	864.8	767.2	688.9	637.8	602.6	576.5	551.6	531.7
57.5°	947.1	946.0	876.7	784.2	688.9	622.5	573.7	544.8	522.1	504.5	487.4
60°	826.2	835.9	779.1	694.6	619.1	556.7	512.4	486.3	471.0	454.5	440.3
62.5°	716.7	731.5	679.8	613.4	539.1	488.0	454.0	434.1	417.1	405.2	394.4
65°	611.7	630.4	588.5	528.9	472.1	423.9	395.0	376.2	363.2	356.4	349.0
67.5°	519.2	529.4	501.1	454.5	407.4	365.4	341.6	325.2	313.8	311.0	302.5
70°	426.7	438.6	418.8	376.2	339.9	309.3	287.7	274.6	267.8	263.9	258.2
72.5°	352.4	357.5	337.6	308.1	279.2	253.7	237.8	228.1	220.2	218.5	215.6
75°	275.8	283.2	267.3	244.6	220.7	202.6	190.7	182.7	178.7	175.9	175.9
77.5°	208.3	214.5	205.4	185.6	171.4	155.5	147.5	140.2	138.5	135.6	136.8
80°	148.1	150.9	145.8	132.2	119.7	111.2	104.4	100.4	99.9	97.6	99.9
82.5°	98.2	98.7	93.1	86.8	77.2	72.6	68.1	66.4	65.8	65.8	64.7
85°	54.5	55.6	51.6	47.7	44.3	40.3	39.2	38.0	36.9	38.6	39.7
87.5°	21.0	21.6	21.0	19.3	18.2	17.0	16.5	17.6	15.9	17.0	17.6
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1390.3	1390.3	1390.3	1390.3	1390.3	1390.3	1390.3	1390.3	1390.3	1390.3	1390.3
2.5°	1358.5	1354.0	1347.1	1335.8	1327.9	1319.3	1315.9	1317.1	1313.7	1309.1	1310.3
5°	1322.7	1309.7	1298.3	1282.5	1267.7	1255.2	1251.2	1246.1	1241.6	1238.8	1235.9
7.5°	1284.7	1266.6	1249.5	1233.7	1216.6	1200.7	1194.5	1190.0	1187.7	1179.7	1176.3
10°	1248.4	1227.4	1207.0	1188.3	1170.7	1153.1	1146.8	1141.2	1133.2	1129.8	1125.8
12.5°	1209.8	1188.8	1166.7	1144.0	1126.4	1112.2	1101.4	1097.5	1089.5	1086.1	1083.8
15°	1172.4	1146.8	1129.2	1111.7	1085.0	1069.1	1064.6	1050.4	1045.8	1039.0	1034.5
17.5°	1134.9	1111.1	1085.0	1064.6	1048.1	1028.2	1017.5	1011.2	1002.7	996.5	987.9
20°	1098.0	1070.2	1049.8	1024.3	1006.1	987.9	974.3	968.7	961.3	952.8	940.8
22.5°	1062.3	1031.6	1011.8	987.9	965.2	944.3	932.9	925.0	910.2	908.5	897.7
25°	1020.3	993.1	966.9	942.0	919.8	898.9	891.5	879.0	873.9	863.7	862.0
27.5°	980.6	951.6	923.3	896.0	876.7	862.0	848.9	841.0	835.9	827.9	828.5
30°	939.1	907.4	880.7	855.7	834.7	820.5	812.0	808.1	800.7	799.5	795.6
32.5°	894.9	865.9	838.1	816.0	794.4	782.0	778.0	774.0	769.5	770.0	768.9
35°	850.6	825.1	795.6	775.1	757.6	750.2	743.9	742.8	741.1	742.2	742.2
37.5°	807.5	779.7	755.3	736.6	726.3	716.1	713.3	712.7	713.3	714.4	717.3
40°	765.5	740.0	716.1	700.8	689.5	684.9	680.9	682.7	684.9	688.9	692.3
42.5°	723.5	699.1	679.2	663.9	653.1	650.9	651.4	654.8	655.4	661.1	667.3
45°	679.2	658.3	639.5	627.6	620.8	618.0	619.1	622.5	626.5	634.4	642.4
47.5°	638.4	619.7	603.2	591.3	586.2	585.0	587.3	591.9	600.9	608.9	618.0
50°	597.0	579.9	564.6	553.8	553.3	549.3	554.4	560.1	570.9	581.6	595.3
52.5°	556.1	539.7	526.6	518.1	515.8	515.8	522.1	532.3	541.9	556.1	568.6
55°	513.5	498.8	486.3	483.5	480.1	481.8	488.6	498.8	512.4	528.3	541.9
57.5°	469.9	457.4	448.3	444.3	442.6	448.3	456.2	467.0	484.6	500.5	515.3
60°	428.4	417.6	408.0	406.9	405.7	413.1	422.8	434.1	451.7	467.6	485.7
62.5°	384.2	375.7	369.4	367.7	367.7	375.1	385.9	400.6	417.1	434.1	453.4
65°	339.3	332.0	330.3	328.0	333.1	337.6	348.4	362.6	380.2	398.9	419.4
67.5°	297.9	293.4	290.0	290.0	293.9	302.5	312.1	326.3	344.4	364.3	382.5
70°	256.5	252.0	249.1	252.0	254.2	264.4	274.6	288.3	305.3	324.6	343.9
72.5°	213.4	213.9	214.5	213.9	216.2	225.8	236.1	249.1	265.6	284.3	301.9
75°	175.3	172.5	173.1	174.2	181.6	186.7	196.9	209.4	227.0	244.0	258.8
77.5°	136.2	135.1	137.9	137.9	144.7	150.9	159.5	171.9	187.3	202.6	214.5
80°	99.9	100.4	102.7	103.3	109.0	115.8	124.8	133.4	147.0	157.8	169.1
82.5°	67.5	68.7	71.5	75.5	77.7	81.7	89.7	98.7	108.4	119.7	126.5
85°	39.2	40.9	43.1	46.0	48.2	52.2	57.9	65.3	72.1	78.3	84.0
87.5°	19.3	19.3	21.0	22.1	23.8	26.1	30.1	32.9	37.5	42.0	44.3
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: P243496

CATALOG NUMBER: S124DRP-H1020D830-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1390.3	1390.3	1390.3	1390.3
2.5°	1308.0	1307.4	1305.2	1306.3
5°	1234.2	1228.5	1228.0	1225.7
7.5°	1170.7	1169.0	1169.0	1164.4
10°	1121.9	1116.8	1117.9	1115.6
12.5°	1075.3	1072.5	1069.1	1065.7
15°	1023.1	1023.1	1023.1	1013.5
17.5°	982.3	981.7	978.9	978.3
20°	939.7	937.4	930.1	935.2
22.5°	896.6	894.9	888.6	889.8
25°	856.3	854.6	853.5	848.9
27.5°	821.7	822.2	823.4	820.5
30°	795.6	793.9	796.1	793.3
32.5°	771.2	771.2	768.9	769.5
35°	743.4	745.6	746.2	745.6
37.5°	719.0	721.8	724.1	721.8
40°	696.3	698.5	700.8	700.2
42.5°	672.4	676.4	678.1	679.8
45°	649.7	654.8	657.7	658.3
47.5°	626.5	632.7	638.4	637.8
50°	603.8	611.7	616.8	616.3
52.5°	581.1	589.0	595.3	598.1
55°	555.5	565.8	571.4	576.5
57.5°	530.0	541.4	547.0	549.3
60°	501.6	511.8	519.2	520.9
62.5°	469.9	480.6	490.3	492.6
65°	436.9	448.9	456.2	457.4
67.5°	398.9	410.3	417.6	421.1
70°	359.8	368.3	376.2	381.3
72.5°	316.1	326.3	333.7	337.1
75°	270.7	282.0	286.0	288.3
77.5°	223.6	230.4	236.6	237.2
80°	176.5	185.0	187.3	192.9
82.5°	129.9	137.9	136.2	138.5
85°	85.7	88.5	90.2	90.8
87.5°	45.4	47.1	48.2	48.8
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P243496
 CATALOG NUMBER: S124DRP-H1020D830-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	19.30	20.88	19.67	21.19	21.50	19.59	21.16	19.96	21.48	21.79
	3H	20.75	22.16	21.12	22.49	22.85	20.98	22.39	21.35	22.72	23.08
	4H	21.26	22.60	21.66	22.94	23.32	21.46	22.79	21.86	23.14	23.52
	6H	21.61	22.84	22.02	23.21	23.60	21.78	23.01	22.19	23.37	23.77
	8H	21.71	22.88	22.13	23.27	23.67	21.86	23.03	22.29	23.42	23.82
	12H	21.76	22.88	22.19	23.26	23.69	21.90	23.03	22.33	23.41	23.84
4H	2H	20.44	21.77	20.84	22.12	22.50	20.38	21.71	20.78	22.06	22.44
	3H	21.94	23.05	22.35	23.45	23.85	22.09	23.20	22.50	23.60	24.00
	4H	22.52	23.52	22.95	23.93	24.37	22.68	23.68	23.11	24.10	24.53
	6H	22.93	23.80	23.38	24.24	24.70	23.08	23.96	23.54	24.40	24.86
	8H	23.05	23.86	23.51	24.31	24.77	23.19	24.00	23.65	24.45	24.91
	12H	23.12	23.85	23.60	24.33	24.80	23.25	23.99	23.74	24.46	24.93
8H	4H	22.94	23.76	23.41	24.20	24.67	23.02	23.84	23.48	24.28	24.75
	6H	23.44	24.12	23.94	24.61	25.08	23.55	24.23	24.05	24.72	25.20
	8H	23.60	24.21	24.11	24.72	25.21	23.72	24.32	24.23	24.83	25.32
	12H	23.72	24.26	24.23	24.75	25.31	23.83	24.37	24.34	24.86	25.42
12H	4H	22.99	23.72	23.47	24.20	24.67	23.05	23.79	23.54	24.26	24.73
	6H	23.51	24.12	24.02	24.62	25.11	23.61	24.22	24.13	24.73	25.22
	8H	23.72	24.26	24.23	24.75	25.31	23.84	24.37	24.35	24.87	25.43