

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: P243334

Luminaire Tested: S123DRP-H1000D840-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P243334
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-59)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DRP-H1000D840-X4F0-XX-UDD-A-W
Description: DEFINE 3 DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

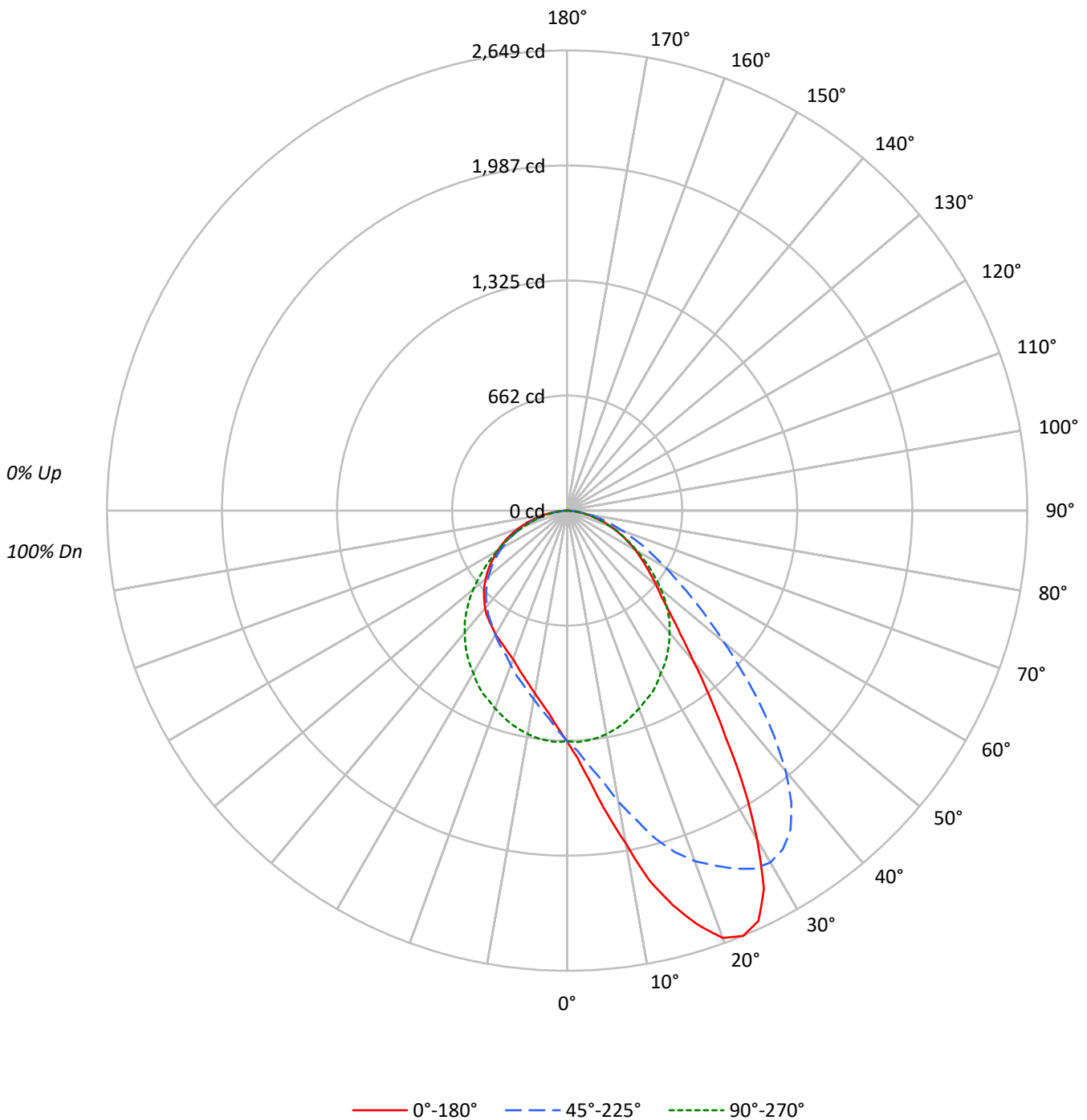
Lumens per Lamp: N/A
Luminaire Lumens: 4001.6 lumens
Efficiency: N/A
Efficacy: 127.0 lumens/watt
Spacing Criteria (0/90/45): 1.39 / 1.21 / 1.5
Luminous Opening: Rectangular (W 3.88' x L: 0.23' x H: 0')
CIE Type: Direct

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	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85					85			
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72					72			
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62					62			
4	84	73	64	58	82	72	64	58	69	62	57	67	61	56	65	60	55	53					53			
5	78	65	57	50	76	64	56	50	62	55	50	60	54	49	58	53	49	46					46			
6	72	59	50	44	70	58	50	44	56	49	44	55	48	43	53	47	43	41					41			
7	67	54	45	39	65	53	45	39	51	44	39	50	43	39	49	43	38	36					36			
8	62	49	41	35	61	48	41	35	47	40	35	46	39	35	45	39	34	33					33			
9	58	45	37	32	57	45	37	32	43	36	31	42	36	31	41	35	31	29					29			
10	55	42	34	29	53	41	34	29	40	33	29	39	33	28	38	33	28	27					27			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	16095	16095	16095	16095	16095
5°	19174	17931	16171	14624	14292
10°	23944	20944	16073	13581	13140
15°	29509	24504	15899	12809	12328
20°	33767	27691	15645	12226	11732
25°	34849	30417	15473	11797	11514
30°	30616	32743	15103	11564	11522
35°	23498	33168	14879	11416	11533
40°	17874	30956	14516	11380	11621
45°	14382	26846	14048	11317	11610
50°	12657	22206	13298	11120	11510
55°	11665	18578	12320	10947	11435
60°	10994	15857	11275	10582	11200
65°	10219	13776	10305	10165	10985
70°	9349	12000	9243	9349	10515
75°	8313	10252	8055	8369	9793
80°	6959	8446	6659	7169	8572
85°	4909	6258	4826	5410	6425

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 55°
 Vertical Angle: 45°
 Luminance: 30139 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.6	3.3
10°-20°	419.4	10.5
20°-30°	692.7	17.3
30°-40°	792.8	19.8
40°-50°	718.4	18.0
50°-60°	580.5	14.5
60°-70°	404.4	10.1
70°-80°	212.1	5.3
80°-90°	50.6	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°	1242.7	31.1
0°-40°	2035.5	50.9
0°-60°	3334.4	83.3
0°-90°	4001.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4001.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1328	1328	1328	1328	1328	
5°	1576	1474	1329	1202	1175	162
15°	2352	1953	1267	1021	982	669
25°	2606	2274	1157	882	861	1164
35°	1588	2242	1006	772	779	1006
45°	839	1566	820	660	677	661
55°	552	879	583	518	541	496
65°	356	480	359	354	383	353
75°	178	219	172	179	209	190
85°	35	45	35	39	46	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°	1327.8	1327.8	1327.8	1327.8	1327.8	1327.8	1327.8	1327.8	1327.8	1327.8	1327.8
2.5°	1429.9	1432.9	1428.1	1431.1	1423.8	1419.6	1412.9	1409.8	1395.2	1384.9	1381.3
5°	1575.8	1575.8	1577.0	1569.7	1561.2	1546.0	1525.9	1513.2	1498.6	1473.7	1460.9
7.5°	1759.4	1750.3	1744.2	1730.8	1719.3	1694.3	1672.5	1646.3	1612.3	1570.9	1549.0
10°	1945.4	1955.2	1949.1	1935.1	1905.3	1864.6	1832.3	1794.7	1741.8	1701.6	1644.5
12.5°	2177.7	2164.9	2155.2	2133.9	2101.1	2057.9	2008.0	1952.1	1884.0	1817.8	1753.9
15°	2351.5	2353.4	2352.7	2324.8	2292.6	2234.2	2188.0	2095.0	2008.7	1952.7	1846.9
17.5°	2498.7	2506.6	2497.4	2455.5	2426.9	2392.3	2333.3	2229.9	2151.5	2060.9	1944.2
20°	2617.8	2619.0	2604.4	2573.4	2540.6	2501.7	2423.9	2344.8	2268.2	2146.7	2035.4
22.5°	2649.4	2652.5	2649.4	2636.1	2609.3	2568.0	2509.6	2436.6	2340.0	2210.5	2107.1
25°	2605.7	2603.8	2614.2	2606.3	2605.0	2591.7	2553.4	2494.4	2399.0	2274.3	2143.0
27.5°	2452.5	2439.7	2465.8	2499.9	2504.7	2526.0	2526.6	2499.3	2430.6	2324.2	2181.3
30°	2187.4	2199.5	2212.3	2283.4	2323.0	2378.3	2426.3	2443.9	2417.8	2339.4	2205.6
32.5°	1899.2	1938.1	1974.0	2023.2	2081.0	2174.6	2250.6	2317.5	2346.1	2311.4	2205.6
35°	1588.0	1608.6	1665.2	1727.8	1811.1	1884.0	2034.8	2132.1	2219.0	2241.5	2177.7
37.5°	1344.8	1363.6	1383.1	1431.7	1525.3	1646.9	1771.6	1899.2	2028.1	2120.5	2116.9
40°	1129.6	1133.8	1150.8	1192.8	1270.6	1378.8	1509.5	1663.3	1830.5	1956.4	2009.3
42.5°	964.2	964.2	985.5	1034.1	1079.1	1158.1	1284.6	1420.2	1603.2	1764.9	1877.9
45°	839.0	840.2	857.2	891.9	927.1	989.1	1082.8	1210.4	1398.9	1566.1	1723.5
47.5°	736.8	748.4	758.1	776.3	811.6	866.3	934.4	1043.2	1177.6	1360.0	1543.6
50°	671.2	673.6	680.9	691.8	719.2	755.1	814.0	896.7	1015.9	1177.6	1363.0
52.5°	606.7	606.7	614.0	627.4	643.2	672.4	714.9	783.6	873.0	1019.5	1186.1
55°	552.0	553.8	555.1	566.0	579.4	601.3	634.7	679.7	761.8	879.1	1024.4
57.5°	498.5	505.2	503.4	511.9	521.6	537.4	561.1	600.0	662.7	752.0	882.7
60°	453.5	452.3	455.4	459.0	465.7	476.6	498.5	527.1	579.4	654.1	761.1
62.5°	402.5	401.2	404.9	409.1	415.2	424.3	440.2	462.0	503.4	559.3	652.3
65°	356.3	355.0	356.9	359.3	366.0	373.3	385.4	403.7	431.0	480.3	551.4
67.5°	310.1	310.1	311.3	313.7	318.0	323.4	333.2	344.1	371.5	404.3	460.2
70°	263.8	264.5	264.5	266.9	270.5	274.8	282.7	292.4	309.4	338.6	383.6
72.5°	223.7	223.7	222.5	223.7	226.2	228.0	232.8	242.0	254.7	276.0	310.1
75°	177.5	180.6	180.0	179.3	181.2	184.2	188.5	195.8	203.7	218.9	244.4
77.5°	136.2	138.0	138.0	138.6	140.4	142.9	144.1	151.4	158.7	167.8	186.6
80°	99.7	100.9	99.7	100.3	101.5	104.0	106.4	107.6	113.1	121.0	130.1
82.5°	66.9	65.1	67.5	66.9	68.1	68.7	69.9	70.5	74.2	79.0	85.1
85°	35.3	38.3	37.7	38.9	37.7	38.3	38.9	41.3	41.9	45.0	48.6
87.5°	13.4	14.6	14.6	14.6	14.6	14.6	15.8	16.4	17.6	18.2	19.5
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°	1327.8	1327.8	1327.8	1327.8	1327.8	1327.8	1327.8	1327.8	1327.8	1327.8	1327.8
2.5°	1383.7	1378.2	1370.3	1361.8	1352.7	1343.6	1339.3	1333.8	1322.9	1311.9	1303.4
5°	1450.6	1435.4	1414.7	1399.5	1377.6	1356.9	1340.5	1329.0	1311.3	1290.1	1276.1
7.5°	1525.3	1498.0	1465.1	1431.7	1398.9	1367.9	1342.3	1320.5	1293.1	1267.0	1245.7
10°	1613.5	1560.6	1515.0	1466.4	1417.7	1374.0	1337.5	1305.9	1270.6	1239.0	1212.9
12.5°	1691.3	1629.9	1566.7	1498.0	1432.3	1375.8	1329.0	1287.6	1245.1	1208.6	1181.8
15°	1777.0	1690.7	1603.2	1525.3	1445.7	1376.4	1315.0	1267.0	1218.3	1177.0	1146.0
17.5°	1875.5	1760.0	1650.0	1538.1	1467.6	1378.2	1302.8	1239.6	1189.7	1148.4	1108.3
20°	1933.9	1819.0	1684.0	1569.1	1452.4	1360.6	1276.7	1212.9	1154.5	1107.1	1074.2
22.5°	1965.5	1844.5	1703.5	1585.5	1449.3	1346.6	1257.2	1181.8	1119.2	1071.8	1034.7
25°	2009.9	1844.5	1713.8	1572.1	1454.2	1330.2	1229.3	1156.9	1091.3	1036.5	997.6
27.5°	2029.9	1860.9	1715.0	1546.6	1425.0	1299.2	1197.0	1120.4	1047.5	994.0	960.6
30°	2046.3	1864.0	1690.7	1526.6	1391.0	1264.5	1164.8	1079.1	1011.0	959.9	924.7
32.5°	2047.6	1856.1	1657.9	1488.9	1345.4	1223.8	1126.5	1045.7	974.5	920.4	885.8
35°	2036.6	1836.6	1620.2	1431.1	1292.5	1181.8	1084.6	1005.5	933.2	881.5	846.3
37.5°	2008.7	1814.7	1584.9	1377.0	1229.9	1122.3	1039.6	964.2	892.5	840.8	811.6
40°	1949.1	1779.5	1538.7	1319.2	1166.6	1059.0	986.7	917.4	853.6	800.1	770.9
42.5°	1870.0	1726.6	1482.8	1257.8	1096.1	992.2	928.3	872.4	807.4	761.1	731.4
45°	1758.2	1654.8	1426.8	1193.4	1026.2	924.1	865.7	819.5	763.6	717.4	691.2
47.5°	1631.7	1568.5	1354.5	1121.1	952.7	856.6	801.3	764.2	716.8	677.3	651.1
50°	1489.5	1465.8	1274.9	1048.1	884.0	785.5	734.4	705.2	665.1	633.5	611.0
52.5°	1335.0	1349.6	1191.0	973.9	817.7	718.0	669.3	642.6	617.1	590.3	569.0
55°	1178.2	1212.9	1089.4	893.1	741.7	654.8	607.3	583.0	564.2	541.7	526.5
57.5°	1031.1	1085.2	984.3	806.7	671.8	588.5	543.5	522.2	508.2	496.1	482.1
60°	888.2	950.8	876.0	725.9	601.9	525.9	485.7	465.1	458.4	449.3	435.9
62.5°	761.8	825.6	769.7	642.6	531.3	466.3	429.8	412.8	403.1	400.0	392.1
65°	643.2	702.8	660.2	555.7	464.5	406.7	374.5	359.3	353.8	353.2	347.1
67.5°	540.5	598.2	559.3	471.2	393.9	347.1	322.8	310.7	305.2	305.8	301.5
70°	445.6	486.4	463.3	393.9	334.4	293.0	274.2	260.8	256.6	256.6	255.3
72.5°	357.5	389.7	372.1	319.2	272.4	240.7	224.3	216.4	212.8	212.2	212.8
75°	279.7	307.6	291.8	250.5	215.2	191.5	177.5	172.0	170.2	169.0	169.6
77.5°	209.1	226.8	217.0	190.3	161.1	144.7	138.0	132.5	130.7	131.3	132.5
80°	147.7	157.5	152.0	135.0	115.5	104.6	99.7	95.4	93.6	95.4	95.4
82.5°	93.6	100.9	96.1	85.1	75.4	68.1	63.2	62.0	61.4	60.2	62.0
85°	51.1	54.7	52.3	48.6	41.9	38.9	35.3	34.7	34.7	34.7	34.7
87.5°	20.1	22.5	19.5	19.5	18.2	15.2	15.2	14.6	14.0	14.6	14.6
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°	1327.8	1327.8	1327.8	1327.8	1327.8	1327.8	1327.8	1327.8	1327.8	1327.8	1327.8
2.5°	1299.8	1291.9	1287.0	1280.3	1272.4	1262.1	1257.8	1262.1	1259.7	1255.4	1257.2
5°	1263.9	1253.6	1240.2	1229.3	1217.1	1201.9	1197.0	1194.6	1191.0	1189.1	1186.1
7.5°	1228.7	1213.5	1197.0	1181.8	1164.2	1150.8	1144.8	1140.5	1139.3	1130.2	1126.5
10°	1192.2	1173.3	1156.9	1136.3	1121.1	1103.4	1096.1	1091.3	1085.8	1079.7	1075.5
12.5°	1153.9	1135.0	1114.4	1094.9	1079.7	1060.3	1050.5	1045.1	1040.8	1036.5	1031.7
15°	1120.4	1101.6	1073.0	1058.4	1040.2	1020.7	1014.7	1002.5	1003.7	996.4	991.6
17.5°	1085.2	1057.2	1037.2	1015.3	1001.9	987.9	976.4	963.6	961.8	956.3	954.5
20°	1045.7	1016.5	1002.5	980.0	961.8	947.8	937.5	936.2	932.6	924.7	921.6
22.5°	1006.8	983.0	963.6	942.9	926.5	908.3	903.4	905.2	898.5	896.7	890.0
25°	971.5	950.8	926.5	907.1	893.7	882.1	875.4	873.0	870.6	868.8	865.7
27.5°	933.8	911.9	891.2	875.4	862.7	854.8	850.5	845.0	844.4	844.4	843.2
30°	896.1	876.7	862.7	842.6	831.1	826.2	822.6	820.7	822.6	822.6	823.2
32.5°	861.5	842.6	826.2	812.2	800.7	797.0	796.4	796.4	798.8	798.8	800.7
35°	825.6	806.7	791.5	781.8	772.1	771.5	772.1	773.3	776.3	777.0	779.4
37.5°	786.7	772.1	760.5	748.4	745.9	747.2	748.4	749.6	750.8	755.7	755.7
40°	750.8	739.9	728.3	720.4	716.2	719.2	721.0	721.6	725.3	728.3	730.8
42.5°	715.6	705.2	696.1	689.4	687.6	690.0	691.8	693.7	697.3	699.7	704.0
45°	676.0	669.3	661.4	656.0	656.6	660.2	660.2	666.3	668.7	670.0	673.0
47.5°	639.6	632.3	626.8	624.4	623.8	626.8	628.6	633.5	634.7	639.0	641.4
50°	600.7	595.2	590.9	587.9	588.5	589.7	594.0	598.8	600.0	604.9	609.2
52.5°	559.9	555.1	551.4	552.6	554.4	554.4	558.7	561.7	564.8	568.4	572.7
55°	519.8	513.1	513.7	511.9	513.7	518.0	519.8	524.7	527.1	528.9	535.0
57.5°	476.0	474.8	473.0	471.2	474.8	476.6	479.7	482.7	487.0	489.4	493.7
60°	431.0	429.2	429.2	431.6	432.9	436.5	441.4	443.2	444.4	449.3	454.7
62.5°	389.7	387.9	387.3	390.9	390.9	394.6	396.4	399.4	404.3	406.1	413.4
65°	345.3	344.1	344.1	347.1	347.7	354.4	354.4	354.4	357.5	364.2	367.8
67.5°	299.1	299.7	301.5	303.4	305.8	307.6	308.2	311.9	316.7	321.0	328.3
70°	252.9	255.9	259.6	259.0	260.8	263.8	264.5	268.1	272.4	277.8	286.3
72.5°	211.6	213.4	217.0	217.0	219.5	221.3	224.3	226.8	232.2	237.1	240.7
75°	170.2	170.8	173.9	175.7	177.5	178.7	181.8	186.0	189.1	193.3	198.8
77.5°	133.7	132.5	135.0	135.6	136.8	139.2	141.7	145.9	148.3	153.2	155.0
80°	94.8	97.3	97.9	98.5	99.7	102.7	104.6	106.4	108.8	113.1	114.9
82.5°	62.6	63.8	65.7	66.3	67.5	68.1	68.7	71.7	73.6	74.8	80.9
85°	36.5	38.3	37.1	37.1	38.3	38.9	41.3	41.3	43.8	42.6	45.6
87.5°	15.8	15.2	15.2	15.8	15.2	14.6	16.4	16.4	15.8	16.4	16.4
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: P243334

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1327.8	1327.8	1327.8	1327.8
2.5°	1254.2	1254.2	1249.3	1251.2
5°	1180.0	1182.5	1176.4	1174.6
7.5°	1125.3	1122.9	1118.6	1118.6
10°	1071.8	1069.4	1067.6	1067.6
12.5°	1025.6	1023.2	1019.5	1022.6
15°	984.3	984.9	982.4	982.4
17.5°	952.7	947.2	945.4	944.7
20°	915.0	916.2	913.7	909.5
22.5°	891.2	888.2	885.8	885.2
25°	866.9	863.9	863.3	860.9
27.5°	842.6	843.2	841.4	841.4
30°	822.6	824.4	822.6	823.2
32.5°	802.5	802.5	802.5	800.1
35°	780.6	781.2	780.6	779.4
37.5°	758.1	758.1	758.7	759.9
40°	733.2	733.2	734.4	734.4
42.5°	703.4	706.4	708.3	705.2
45°	676.6	677.3	677.9	677.3
47.5°	646.9	645.0	645.6	646.9
50°	609.8	614.0	614.0	610.4
52.5°	573.9	575.1	577.5	577.5
55°	538.6	539.2	539.9	541.1
57.5°	498.5	499.1	499.1	498.5
60°	458.4	462.0	461.4	462.0
62.5°	415.2	420.7	422.5	421.9
65°	374.5	375.7	378.8	383.0
67.5°	331.3	334.4	339.2	338.0
70°	288.8	293.0	294.2	296.7
72.5°	246.2	251.7	252.9	254.1
75°	204.9	207.3	209.7	209.1
77.5°	159.9	163.5	167.8	165.4
80°	119.8	120.4	124.0	122.8
82.5°	79.0	83.9	83.9	81.5
85°	46.2	46.2	46.2	46.2
87.5°	15.8	15.2	16.4	15.8
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P243334
 CATALOG NUMBER: S123DRP-H1000D840-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	20.05	21.61	20.42	21.93	22.24	20.58	22.14	20.95	22.46	22.77
	3H	21.57	22.97	21.95	23.30	23.66	21.92	23.32	22.30	23.65	24.01
	4H	22.12	23.44	22.52	23.78	24.16	22.38	23.69	22.78	24.04	24.42
	6H	22.48	23.70	22.89	24.06	24.46	22.68	23.90	23.09	24.26	24.65
	8H	22.58	23.74	23.00	24.13	24.53	22.75	23.91	23.18	24.30	24.70
	12H	22.63	23.74	23.06	24.12	24.55	22.79	23.90	23.22	24.28	24.71
4H	2H	21.22	22.53	21.61	22.88	23.26	21.37	22.69	21.77	23.04	23.42
	3H	22.77	23.87	23.18	24.27	24.67	23.16	24.26	23.57	24.66	25.06
	4H	23.37	24.36	23.80	24.77	25.21	23.73	24.72	24.16	25.13	25.57
	6H	23.80	24.66	24.25	25.10	25.56	24.10	24.96	24.55	25.40	25.86
	8H	23.91	24.72	24.38	25.16	25.63	24.19	24.99	24.65	25.43	25.90
	12H	23.99	24.71	24.47	25.19	25.66	24.24	24.96	24.72	25.44	25.91
8H	4H	23.83	24.64	24.29	25.08	25.55	24.03	24.84	24.49	25.28	25.75
	6H	24.33	25.00	24.83	25.49	25.96	24.54	25.21	25.04	25.70	26.17
	8H	24.49	25.09	25.01	25.60	26.09	24.69	25.28	25.20	25.79	26.28
	12H	24.61	25.14	25.12	25.63	26.19	24.79	25.31	25.30	25.81	26.37
12H	4H	23.88	24.60	24.36	25.08	25.55	24.05	24.77	24.53	25.24	25.71
	6H	24.40	25.00	24.91	25.51	26.00	24.57	25.17	25.09	25.68	26.17
	8H	24.61	25.14	25.12	25.63	26.19	24.78	25.31	25.29	25.80	26.36