

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: P243147

Luminaire Tested: S122DRP-H865D927-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P243147
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-58)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DRP-H865D927-X4F0-XX-UDD-A-W
Description: DEFINE 2 DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

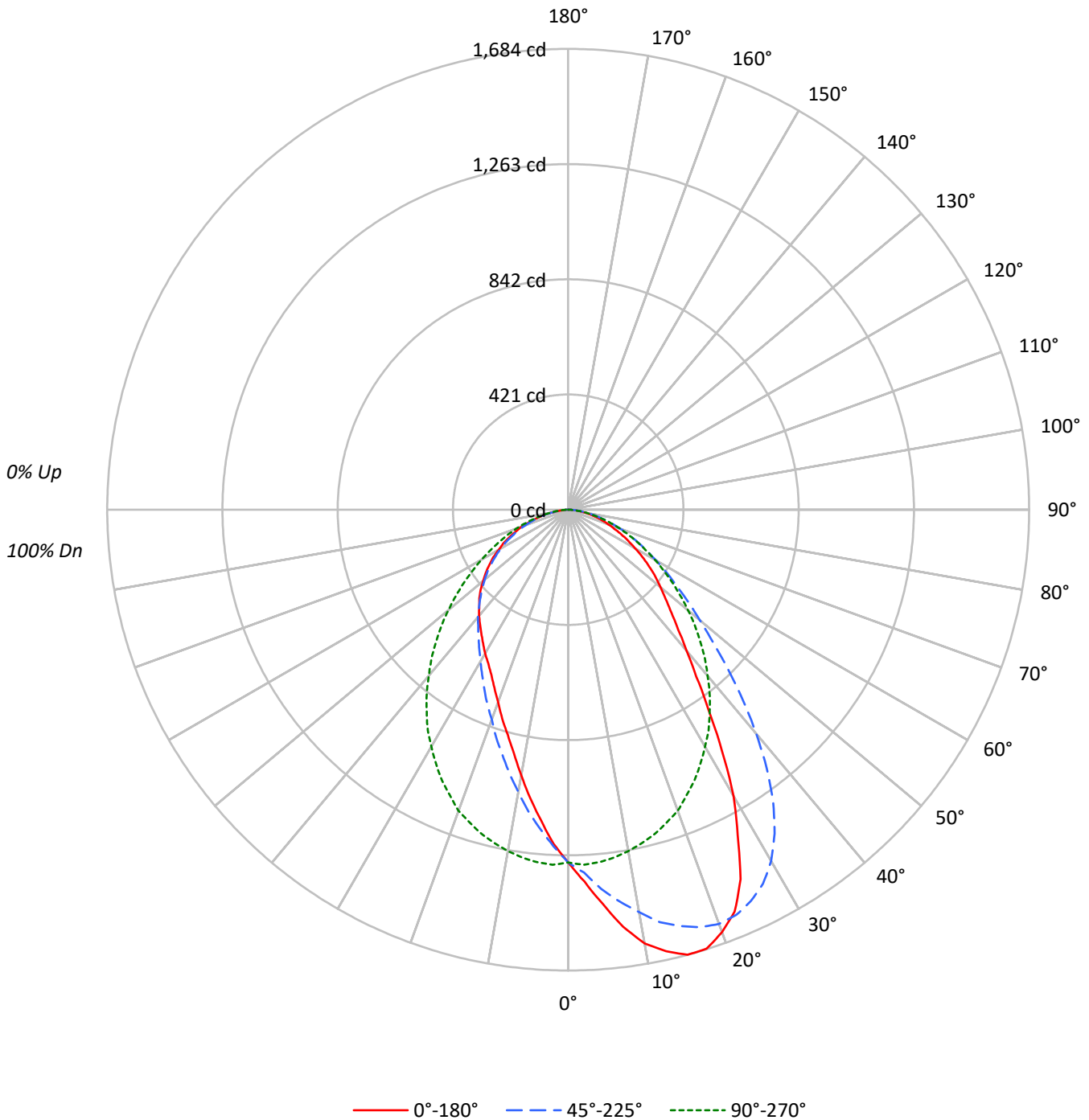
Lumens per Lamp: N/A
Luminaire Lumens: 2859.9 lumens
Efficiency: N/A
Efficacy: 90.8 lumens/watt
Spacing Criteria (0/90/45): 1.09 / 1.16 / 1.24
Luminous Opening: Rectangular (W 3.88' x L: 0.15' x H: 0')
CIE Type: Direct

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	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86					86			
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	74					74			
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66	63					63			
4	86	74	66	60	83	73	66	60	71	64	59	68	63	58	66	61	57	55					55			
5	79	67	59	52	77	66	58	52	64	57	52	62	56	51	60	55	51	49					49			
6	73	61	52	46	72	60	52	46	58	51	46	57	50	45	55	49	45	43					43			
7	68	56	47	41	67	55	47	41	53	46	41	52	46	41	51	45	40	39					39			
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35					35			
9	60	47	39	34	58	46	39	34	45	38	34	44	38	34	43	38	33	32					32			
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	31	29					29			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	24549	24549	24549	24549	24549
5°	27654	26595	24725	22390	21780
10°	31128	28887	24504	20270	19061
15°	33204	31051	24174	18296	16799
20°	33300	32651	23736	16542	15160
25°	31317	33173	22946	15237	13974
30°	26585	32607	21990	14059	13344
35°	20786	30368	20963	13277	12845
40°	16699	26556	19701	12738	12597
45°	14366	22256	18401	12205	12362
50°	13033	18559	16932	11803	12013
55°	12008	15950	15429	11341	11689
60°	10792	14065	13901	10811	11158
65°	9717	12575	12489	10127	10619
70°	8660	11155	11105	9273	9935
75°	7794	9722	9545	8213	8706
80°	6801	8062	7689	6702	6801
85°	5835	6666	5726	4480	3759

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 65°
 Vertical Angle: 45°
 Luminance: 30773 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.8	4.3
10°-20°	352.9	12.3
20°-30°	513.2	17.9
30°-40°	550.5	19.3
40°-50°	493.4	17.3
50°-60°	393.4	13.8
60°-70°	266.1	9.3
70°-80°	135.7	4.7
80°-90°	31.8	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°	989.0	34.6
0°-40°	1539.5	53.8
0°-60°	2426.3	84.8
0°-90°	2859.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2859.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1289	1289	1289	1289	1289	
5°	1446	1391	1293	1171	1139	143
15°	1684	1575	1226	928	852	471
25°	1490	1578	1092	725	665	670
35°	894	1306	902	571	552	566
45°	533	826	683	453	459	417
55°	362	480	465	342	352	323
65°	216	279	277	225	236	214
75°	106	132	130	112	118	113
85°	27	30	26	20	17	31
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°	1288.8	1288.8	1288.8	1288.8	1288.8	1288.8	1288.8	1288.8	1288.8	1288.8	1288.8
2.5°	1360.4	1364.7	1360.9	1359.4	1356.6	1355.6	1348.0	1341.8	1338.0	1327.5	1328.4
5°	1446.3	1455.8	1450.5	1450.1	1439.6	1432.9	1426.2	1416.7	1402.4	1390.9	1381.9
7.5°	1536.9	1532.1	1530.7	1525.4	1517.8	1508.3	1493.5	1479.6	1461.5	1444.8	1432.4
10°	1609.4	1608.0	1610.3	1597.0	1592.2	1577.4	1564.5	1543.1	1519.7	1493.5	1477.3
12.5°	1652.3	1656.6	1659.9	1654.7	1643.3	1639.0	1617.5	1587.4	1579.3	1543.6	1524.0
15°	1683.8	1685.7	1686.2	1680.5	1674.7	1663.8	1650.9	1631.8	1605.6	1574.6	1559.8
17.5°	1681.9	1681.4	1684.3	1680.9	1677.6	1674.3	1664.2	1649.5	1628.9	1599.8	1575.0
20°	1642.8	1651.4	1658.0	1659.5	1659.0	1660.9	1656.1	1646.6	1631.8	1610.8	1582.7
22.5°	1589.4	1586.0	1600.3	1599.4	1605.6	1619.9	1626.1	1622.3	1616.5	1603.2	1580.8
25°	1490.1	1493.5	1503.5	1514.0	1538.3	1546.9	1565.5	1579.8	1581.7	1578.4	1564.5
27.5°	1341.3	1365.2	1370.4	1384.2	1418.1	1446.3	1483.9	1506.4	1538.3	1541.2	1535.0
30°	1208.7	1207.8	1215.9	1240.7	1271.7	1314.1	1362.8	1420.5	1457.2	1482.5	1491.6
32.5°	1045.6	1049.4	1070.4	1100.9	1132.4	1174.8	1231.1	1301.7	1350.9	1403.3	1432.9
35°	893.9	905.8	925.9	946.8	981.2	1039.4	1101.9	1160.5	1235.9	1306.0	1353.7
37.5°	768.9	785.1	800.4	820.4	853.8	898.7	954.9	1032.7	1107.6	1192.0	1262.1
40°	671.6	677.8	688.3	707.9	730.3	775.1	831.9	890.1	971.2	1068.0	1160.1
42.5°	595.3	593.9	605.3	617.7	638.2	671.6	721.2	779.4	860.0	945.9	1038.9
45°	533.3	533.8	538.5	551.4	567.6	586.7	624.9	679.7	740.8	826.2	924.9
47.5°	482.7	484.2	491.3	500.4	509.9	527.6	552.8	588.6	645.9	717.4	809.9
50°	439.8	442.2	446.9	453.6	460.8	473.2	492.3	520.4	565.7	626.3	710.2
52.5°	401.6	402.6	404.0	410.2	415.9	427.4	441.7	463.6	499.4	550.0	615.3
55°	361.6	360.6	363.9	369.2	374.4	382.6	397.3	415.0	440.3	480.3	534.2
57.5°	320.5	322.0	324.4	327.2	336.8	345.3	356.3	372.5	392.6	424.1	468.9
60°	283.3	283.3	286.2	290.0	296.2	301.9	312.4	327.2	344.9	369.2	406.9
62.5°	247.1	249.0	251.9	253.8	259.5	266.6	274.8	286.2	302.4	322.0	350.1
65°	215.6	214.6	217.5	221.3	225.6	230.4	239.5	249.0	261.4	279.0	302.4
67.5°	183.2	186.0	187.0	188.9	192.2	198.4	202.7	212.7	222.8	238.5	258.1
70°	155.5	157.4	158.8	161.2	164.1	166.9	171.2	179.4	189.4	200.3	214.2
72.5°	130.7	132.1	130.7	133.1	134.5	137.4	143.1	146.9	154.5	164.1	176.5
75°	105.9	106.8	106.4	108.8	109.2	112.1	115.0	118.3	126.9	132.1	140.7
77.5°	83.0	84.0	84.4	85.4	86.3	87.8	89.2	92.5	97.3	102.1	108.8
80°	62.0	62.0	63.4	63.9	64.4	65.3	67.7	68.7	72.0	73.5	78.7
82.5°	42.9	43.4	43.9	43.9	44.4	45.3	45.8	47.7	48.7	51.0	53.4
85°	26.7	27.2	27.2	27.2	28.6	28.1	28.1	29.1	30.5	30.5	31.5
87.5°	13.4	13.8	13.8	13.8	14.3	14.3	14.3	14.3	14.3	15.3	14.8
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°	1288.8	1288.8	1288.8	1288.8	1288.8	1288.8	1288.8	1288.8	1288.8	1288.8	1288.8
2.5°	1328.0	1327.5	1325.6	1317.0	1310.3	1301.7	1300.3	1298.9	1286.9	1274.1	1270.2
5°	1374.7	1366.1	1354.2	1339.9	1325.6	1309.8	1300.8	1293.1	1275.0	1255.0	1243.5
7.5°	1420.5	1403.8	1385.2	1362.8	1338.9	1313.6	1297.4	1282.2	1257.4	1231.1	1215.4
10°	1459.6	1437.2	1411.4	1381.9	1348.9	1314.6	1290.8	1266.9	1235.4	1203.5	1182.5
12.5°	1492.0	1463.4	1429.6	1389.5	1359.4	1312.2	1278.8	1247.3	1212.5	1171.0	1148.1
15°	1516.9	1488.7	1442.9	1402.4	1362.8	1299.8	1259.3	1225.9	1179.1	1138.6	1102.3
17.5°	1546.9	1506.8	1461.5	1403.3	1359.4	1287.4	1241.6	1198.2	1147.7	1100.0	1059.9
20°	1560.3	1518.3	1469.6	1404.8	1348.9	1274.1	1213.0	1171.0	1110.0	1055.1	1009.8
22.5°	1562.2	1522.1	1469.2	1400.5	1330.8	1254.5	1184.4	1129.5	1068.5	1010.3	959.2
25°	1554.1	1515.9	1461.0	1392.8	1310.8	1233.5	1155.3	1091.8	1021.3	961.1	909.2
27.5°	1532.1	1501.1	1449.1	1376.1	1290.3	1201.1	1115.7	1046.5	976.9	908.7	859.1
30°	1496.8	1476.3	1431.5	1354.2	1264.0	1165.8	1080.4	999.8	924.4	860.5	807.1
32.5°	1451.5	1441.5	1404.3	1328.0	1237.3	1127.1	1037.9	954.9	872.9	812.3	757.5
35°	1393.8	1399.0	1367.6	1298.4	1203.5	1088.0	988.3	901.5	821.4	757.0	706.4
37.5°	1318.9	1344.7	1324.6	1259.7	1160.1	1048.4	936.3	849.1	765.1	703.1	658.7
40°	1234.9	1280.3	1270.7	1216.3	1113.3	1002.2	886.3	792.3	710.2	651.6	609.1
42.5°	1136.2	1202.0	1212.5	1163.4	1067.0	944.5	830.0	739.3	660.2	602.4	561.9
45°	1025.5	1107.1	1142.4	1103.8	1013.1	888.6	772.3	683.1	604.8	555.7	521.8
47.5°	914.4	1012.7	1060.4	1041.8	950.2	829.0	715.0	627.7	553.8	510.9	478.9
50°	804.7	910.1	979.8	967.3	888.2	772.3	657.3	571.4	503.7	464.1	436.9
52.5°	708.3	808.0	883.9	890.1	819.0	707.4	596.2	516.6	458.9	423.1	400.2
55°	613.4	706.0	789.0	804.2	746.5	639.2	540.0	464.6	412.1	382.6	363.9
57.5°	528.5	612.5	695.0	721.7	675.0	578.1	479.4	413.1	367.8	344.9	328.7
60°	456.5	532.3	603.4	630.6	598.6	510.4	424.1	364.9	327.2	306.7	293.8
62.5°	393.5	452.2	515.2	545.2	523.7	446.9	371.6	319.1	288.6	270.9	260.9
65°	336.8	382.1	431.7	466.5	442.7	385.4	322.4	277.1	251.4	235.2	228.0
67.5°	284.3	322.0	361.6	389.2	377.3	325.3	272.4	237.1	215.6	203.2	196.5
70°	236.6	264.7	296.7	318.2	309.6	269.5	227.5	199.4	181.3	172.7	166.9
72.5°	194.1	212.3	236.6	254.2	245.2	217.0	187.0	164.6	151.2	141.2	136.9
75°	154.1	169.8	187.0	198.9	191.8	170.8	146.9	129.7	120.7	114.5	111.6
77.5°	116.9	129.3	141.2	146.9	143.6	128.3	112.1	98.7	91.1	87.3	84.0
80°	84.0	91.1	99.2	104.5	102.6	92.1	80.6	70.1	66.8	62.0	61.1
82.5°	56.3	62.0	63.9	66.3	64.9	60.1	52.0	45.8	42.9	40.5	40.1
85°	33.4	34.8	37.2	37.2	35.8	32.4	28.1	26.2	23.4	22.9	21.5
87.5°	14.8	14.8	14.8	14.8	14.8	13.8	11.9	11.0	10.0	9.5	9.1
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°	1288.8	1288.8	1288.8	1288.8	1288.8	1288.8	1288.8	1288.8	1288.8	1288.8	1288.8
2.5°	1266.9	1262.1	1255.5	1247.8	1241.1	1230.7	1227.3	1227.3	1229.7	1226.8	1224.5
5°	1234.0	1224.5	1214.9	1200.1	1187.7	1171.0	1166.3	1161.5	1161.0	1156.2	1150.0
7.5°	1198.7	1184.4	1164.8	1143.8	1130.5	1112.4	1102.3	1099.5	1090.4	1081.8	1071.8
10°	1157.7	1135.7	1112.4	1092.3	1071.3	1048.0	1036.0	1027.9	1018.9	1008.4	1001.2
12.5°	1108.1	1083.3	1061.8	1038.4	1020.8	987.9	984.0	973.6	955.4	939.7	934.0
15°	1077.5	1034.1	1009.8	988.3	961.6	927.8	915.4	903.9	886.7	876.7	868.6
17.5°	1023.6	984.5	954.0	925.4	899.6	873.4	854.8	845.2	831.4	822.8	814.7
20°	974.5	932.1	900.1	866.7	840.0	816.1	800.4	788.5	781.3	772.7	764.6
22.5°	924.9	880.5	850.0	816.1	784.7	770.4	751.7	741.7	732.2	725.5	716.9
25°	867.2	831.9	793.7	767.5	739.8	725.0	707.4	697.8	690.2	682.6	678.3
27.5°	815.7	779.9	744.6	718.4	695.0	680.7	669.7	660.6	651.1	645.4	642.0
30°	762.2	729.3	698.3	673.0	654.9	639.2	632.5	623.9	616.8	614.4	609.1
32.5°	714.5	677.8	653.0	630.1	614.8	603.9	599.1	590.0	588.6	586.2	583.4
35°	666.8	635.4	611.5	592.0	579.1	571.0	564.8	562.4	560.0	557.6	555.2
37.5°	619.6	594.8	572.4	556.7	546.2	540.0	538.5	533.8	533.3	529.9	529.9
40°	577.2	551.9	536.1	523.7	515.2	512.3	508.5	507.5	506.1	505.1	507.0
42.5°	534.7	517.5	504.2	491.3	484.6	482.2	481.3	479.9	478.9	481.8	482.7
45°	495.1	480.3	468.9	459.8	456.0	453.1	453.1	454.6	454.1	455.5	455.5
47.5°	458.4	445.0	435.5	432.2	427.4	426.4	426.9	426.4	428.8	430.7	432.6
50°	423.6	411.6	404.0	400.7	399.7	398.3	400.2	401.2	402.6	404.5	405.4
52.5°	384.9	379.2	374.4	371.1	370.6	371.1	370.6	374.0	375.4	378.3	377.8
55°	352.0	347.7	344.4	340.6	340.1	341.5	342.5	345.3	347.3	349.6	349.2
57.5°	321.0	317.7	313.9	312.9	312.4	312.9	317.2	316.7	319.6	321.5	322.4
60°	287.2	284.8	281.4	281.4	282.9	283.8	285.2	287.6	290.5	290.0	293.4
62.5°	256.1	253.3	252.3	253.8	253.3	255.7	257.1	257.1	260.9	262.3	263.3
65°	225.1	224.2	222.8	222.8	224.2	224.7	227.1	228.5	229.9	232.8	235.2
67.5°	196.0	193.7	193.7	192.7	194.6	196.0	197.5	199.4	200.3	203.7	205.1
70°	165.5	164.6	164.1	165.0	165.0	166.5	168.9	171.2	173.1	173.6	176.5
72.5°	135.9	135.9	135.9	137.4	138.3	139.8	140.2	142.1	145.0	145.5	146.9
75°	109.2	109.7	109.2	109.7	110.2	111.6	112.6	114.5	116.4	116.9	117.8
77.5°	84.4	83.5	82.5	84.0	84.9	87.8	87.3	88.2	90.2	89.2	90.2
80°	59.1	60.6	58.7	61.5	61.5	61.1	62.0	63.4	63.0	63.9	63.0
82.5°	40.1	38.6	38.6	40.1	40.5	39.1	40.1	40.5	41.0	40.1	39.6
85°	21.9	21.5	22.4	21.0	21.5	20.5	20.5	19.6	20.5	19.6	18.6
87.5°	8.1	7.6	8.1	6.7	6.2	5.7	5.2	5.2	4.3	4.3	4.3
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: P243147

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1288.8	1288.8	1288.8	1288.8
2.5°	1227.8	1222.5	1220.2	1222.1
5°	1143.4	1144.8	1136.2	1139.1
7.5°	1070.4	1064.2	1066.1	1062.7
10°	993.1	989.8	984.5	985.5
12.5°	941.1	918.7	917.3	913.0
15°	868.1	855.7	852.9	851.9
17.5°	809.9	799.4	803.3	800.4
20°	757.5	757.9	751.7	747.9
22.5°	711.2	710.2	707.9	704.0
25°	672.1	672.1	666.4	664.9
27.5°	636.3	637.3	632.5	632.5
30°	609.6	606.3	605.8	606.7
32.5°	582.9	579.1	579.6	579.1
35°	554.3	555.2	553.8	552.4
37.5°	529.9	529.9	529.9	528.5
40°	506.1	507.0	505.6	506.6
42.5°	482.2	482.7	482.7	480.8
45°	458.4	457.9	457.0	458.9
47.5°	433.6	433.6	433.1	434.1
50°	406.4	407.4	405.9	405.4
52.5°	378.7	379.2	378.7	379.7
55°	350.6	350.6	351.1	352.0
57.5°	321.5	324.8	322.4	324.4
60°	292.9	293.4	293.8	292.9
62.5°	265.7	265.2	265.7	267.1
65°	236.1	237.1	236.6	235.6
67.5°	207.0	206.1	207.5	206.1
70°	176.0	177.9	176.5	178.4
72.5°	147.9	147.4	148.3	146.0
75°	118.3	118.3	118.8	118.3
77.5°	90.6	89.7	89.2	87.8
80°	62.5	62.5	60.6	62.0
82.5°	38.2	38.6	39.1	36.3
85°	18.1	18.1	17.6	17.2
87.5°	3.8	3.8	4.3	4.8
90°	0.0	0.0	0.0	0.0

TEST NUMBER: P243147

CATALOG NUMBER: S122DRP-H865D927-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	19.77	21.29	20.13	21.60	21.92	22.61	24.13	22.97	24.44	24.76
	3H	21.12	22.49	21.50	22.81	23.18	23.63	24.99	24.00	25.32	25.68
	4H	21.61	22.89	22.01	23.24	23.61	23.95	25.23	24.35	25.58	25.96
	6H	21.96	23.14	22.37	23.51	23.90	24.15	25.33	24.56	25.70	26.09
	8H	22.06	23.19	22.49	23.58	23.98	24.19	25.32	24.62	25.71	26.11
	12H	22.13	23.21	22.56	23.59	24.02	24.21	25.29	24.64	25.67	26.10
4H	2H	20.65	21.93	21.05	22.28	22.66	22.85	24.13	23.25	24.48	24.86
	3H	22.15	23.21	22.56	23.61	24.01	24.22	25.28	24.63	25.68	26.08
	4H	22.72	23.67	23.15	24.09	24.53	24.73	25.69	25.16	26.11	26.54
	6H	23.15	23.99	23.61	24.43	24.89	25.06	25.90	25.52	26.34	26.80
	8H	23.29	24.07	23.75	24.51	24.98	25.14	25.92	25.60	26.36	26.83
	12H	23.39	24.08	23.87	24.56	25.03	25.18	25.87	25.66	26.35	26.82
8H	4H	23.15	23.93	23.62	24.37	24.84	24.87	25.65	25.33	26.09	26.56
	6H	23.68	24.32	24.17	24.81	25.29	25.31	25.95	25.81	26.44	26.92
	8H	23.86	24.44	24.38	24.95	25.44	25.45	26.02	25.96	26.53	27.02
	12H	24.02	24.52	24.53	25.02	25.58	25.53	26.04	26.04	26.54	27.10
12H	4H	23.21	23.90	23.69	24.38	24.85	24.86	25.56	25.35	26.04	26.51
	6H	23.75	24.33	24.27	24.84	25.33	25.31	25.89	25.83	26.40	26.89
	8H	23.99	24.50	24.50	24.99	25.56	25.49	26.00	26.00	26.49	27.06