

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: NEO-RAY

Report Number: P199528

Luminaire Tested: **S125-DIW-U1-2-35-0048-1D-UDD-1-NA-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199528
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P27900 P27899)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125-DIW-U1-2-35-0048-1D-UDD-1-NA-W
Description: DEFINE 5-INCH DIRECT/INDIRECT WALL LED LUMINAIRE
UPLIGHT LL1-3500K, NO LENS
DOWNLIGHT LL2-3500K, SATIN WHITE DIFFUSER
Light Source: -
757G
Ballast/Driver: ELECTRONIC DRIVERS

Summary

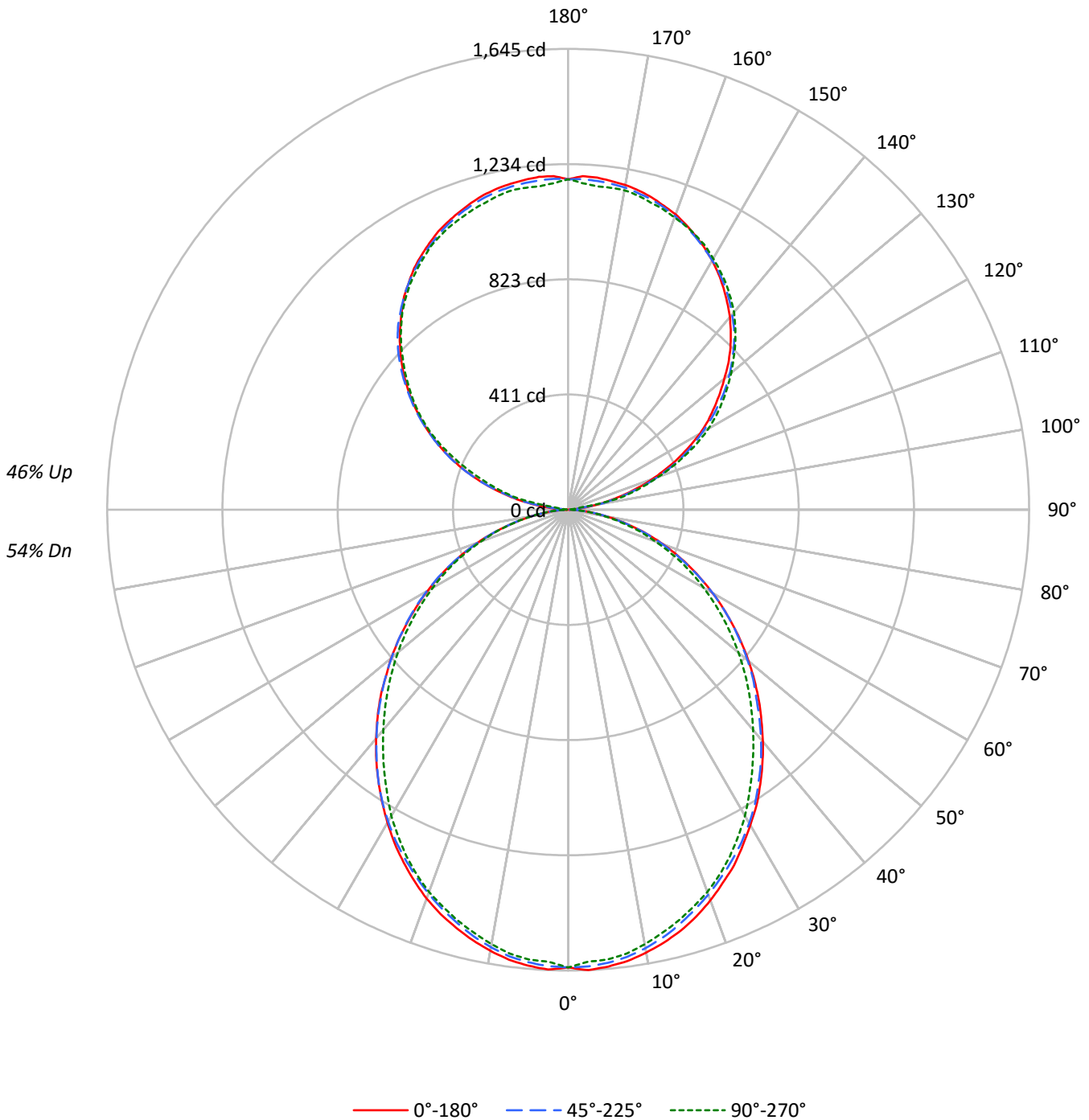
Lumens per Lamp: N/A
Luminaire Lumens: 7616.9 lumens
Efficiency: N/A
Efficacy: 113.7 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4.08' x H: 0.38')
CIE Type: General Diffuse

Input Watts (W): 67
Input Voltage (V): NR
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: 25 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	0	
RCR																						
0	108	108	108	108	100	100	100	100	85	85	85	72	72	72	59	59	59	54				
1	99	94	90	87	91	88	84	81	75	73	70	63	62	60	53	51	50	45				
2	90	82	76	71	83	77	71	67	66	62	58	56	53	50	46	44	42	38				
3	82	73	65	59	76	68	61	56	58	53	49	49	46	43	41	39	36	32				
4	75	64	56	50	69	60	53	47	52	46	42	44	40	37	37	34	31	28				
5	69	57	49	43	64	53	46	41	46	41	36	40	35	32	33	30	27	24				
6	64	51	43	37	59	48	41	35	42	36	32	36	31	28	30	27	24	21				
7	59	46	38	33	54	43	36	31	38	32	28	33	28	25	28	24	21	19				
8	55	42	34	29	51	40	33	28	35	29	25	30	25	22	25	22	19	17				
9	51	39	31	26	47	36	29	25	32	26	22	27	23	20	23	20	17	15				
10	48	35	28	23	44	33	27	22	29	24	20	25	21	18	22	18	16	14				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	10338	10338	10338
5°	10313	9490	10294
10°	10146	8732	10108
15°	9940	8016	9876
20°	9668	7364	9622
25°	9378	6712	9298
30°	9019	6067	8949
35°	8672	5420	8570
40°	8289	4828	8174
45°	7883	4285	7768
50°	7452	3766	7310
55°	6991	3258	6826
60°	6495	2759	6321
65°	5953	2279	5741
70°	5317	1768	5066
75°	4460	1256	4151
80°	3378	782	3090
85°	2019	341	1771



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.6	2.0
10°-20°	431.3	5.7
20°-30°	633.7	8.3
30°-40°	731.9	9.6
40°-50°	725.5	9.5
50°-60°	629.2	8.3
60°-70°	459.6	6.0
70°-80°	251.1	3.3
80°-90°	65.3	0.9
90°-100°	37.6	0.5
100°-110°	250.5	3.3
110°-120°	459.5	6.0
120°-130°	595.7	7.8
130°-140°	647.3	8.5
140°-150°	611.8	8.0
150°-160°	497.7	6.5
160°-170°	323.6	4.2
170°-180°	111.9	1.5
0°-30°	1218.7	16.0
0°-40°	1950.6	25.6
0°-60°	3305.3	43.4
0°-90°	4081.3	53.6
90°-120°	747.6	9.8
90°-150°	2602.4	34.2
90°-180°	3536.0	46.4
0°-180°	7616.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1634	1634	1634	1634	1634	
5°	1637	1624	1612	1622	1634	155
15°	1555	1533	1519	1528	1545	438
25°	1401	1382	1365	1376	1389	644
35°	1195	1185	1144	1181	1181	747
45°	962	949	910	944	948	742
55°	717	716	675	703	700	641
65°	476	472	446	461	459	472
75°	245	243	224	229	228	261
85°	57	60	53	53	50	64
90°	2	4	2	3	2	5
95°	25	8	8	12	58	37
105°	206	218	233	258	263	219
115°	433	451	464	487	485	427
125°	636	656	672	685	681	569
135°	819	838	844	861	850	630
145°	966	974	984	991	991	604
155°	1078	1074	1079	1088	1097	497
165°	1154	1147	1136	1154	1163	326
175°	1190	1178	1159	1180	1193	113
180°	1179	1179	1179	1179	1179	



TEST NUMBER: P199528

CATALOG NUMBER: S125-DIW-U1-2-35-0048-1D-UDD-1-NA-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1634.0	1634.0	1634.0	1634.0	1634.0	1634.0	1634.0	1634.0	1634.0
2.5°	1645.0	1628.0	1632.0	1629.0	1615.0	1627.0	1631.0	1625.0	1643.0
5°	1637.0	1620.0	1624.0	1620.0	1612.0	1618.0	1622.0	1616.0	1634.0
7.5°	1625.0	1607.0	1610.0	1606.0	1598.0	1603.0	1608.0	1602.0	1620.0
10°	1605.0	1588.0	1589.0	1584.0	1575.0	1581.0	1586.0	1581.0	1599.0
12.5°	1582.0	1564.0	1564.0	1556.0	1548.0	1553.0	1560.0	1556.0	1574.0
15°	1555.0	1536.0	1533.0	1528.0	1519.0	1525.0	1528.0	1527.0	1545.0
17.5°	1522.0	1502.0	1498.0	1497.0	1486.0	1494.0	1495.0	1492.0	1514.0
20°	1484.0	1465.0	1462.0	1461.0	1452.0	1458.0	1458.0	1454.0	1477.0
22.5°	1442.0	1424.0	1423.0	1421.0	1411.0	1418.0	1418.0	1412.0	1435.0
25°	1401.0	1379.0	1382.0	1377.0	1365.0	1375.0	1376.0	1366.0	1389.0
27.5°	1350.0	1333.0	1339.0	1330.0	1314.0	1327.0	1333.0	1318.0	1342.0
30°	1300.0	1282.0	1292.0	1276.0	1262.0	1274.0	1285.0	1266.0	1290.0
32.5°	1251.0	1230.0	1242.0	1222.0	1202.0	1217.0	1235.0	1217.0	1236.0
35°	1195.0	1178.0	1185.0	1164.0	1144.0	1159.0	1181.0	1164.0	1181.0
37.5°	1139.0	1125.0	1130.0	1105.0	1085.0	1100.0	1123.0	1110.0	1125.0
40°	1081.0	1071.0	1071.0	1046.0	1026.0	1040.0	1064.0	1057.0	1066.0
42.5°	1021.0	1017.0	1009.0	987.0	968.0	982.0	1005.0	1003.0	1007.0
45°	962.0	962.0	949.0	926.0	910.0	923.0	944.0	949.0	948.0
47.5°	901.0	906.0	895.0	870.0	852.0	865.0	884.0	893.0	883.0
50°	840.0	849.0	835.0	813.0	793.0	807.0	823.0	835.0	824.0
52.5°	779.0	790.0	775.0	754.0	734.0	747.0	763.0	777.0	763.0
55°	717.0	730.0	716.0	694.0	675.0	687.0	703.0	717.0	700.0
57.5°	656.0	668.0	656.0	634.0	616.0	627.0	644.0	655.0	640.0
60°	595.0	608.0	596.0	575.0	558.0	567.0	583.0	594.0	579.0
62.5°	535.0	546.0	533.0	516.0	503.0	507.0	522.0	535.0	519.0
65°	476.0	486.0	472.0	457.0	446.0	448.0	461.0	468.0	459.0
67.5°	418.0	429.0	414.0	400.0	387.0	391.0	402.0	412.0	401.0
70°	360.0	371.0	355.0	343.0	332.0	334.0	343.0	354.0	343.0
72.5°	303.0	312.0	301.0	287.0	279.0	281.0	286.0	296.0	285.0
75°	245.0	255.0	243.0	232.0	224.0	226.0	229.0	237.0	228.0
77.5°	191.0	198.0	190.0	181.0	176.0	177.0	178.0	184.0	176.0
80°	141.0	147.0	142.0	135.0	131.0	131.0	131.0	136.0	129.0
82.5°	96.0	102.0	98.0	93.0	90.0	87.0	89.0	93.0	87.0
85°	57.0	62.0	60.0	55.0	53.0	51.0	53.0	55.0	50.0
87.5°	26.0	30.0	27.0	22.0	20.0	18.0	18.0	21.0	17.0
90°	2.0	5.0	4.0	3.0	2.0	2.0	3.0	4.0	2.0
92.5°	3.5	4.9	4.9	5.6	5.6	6.3	6.9	8.3	23.6
95°	25.0	27.8	7.6	8.3	8.3	9.0	11.8	67.4	57.6
97.5°	57.6	73.6	24.3	14.6	13.2	19.4	75.0	107.0	101.4
100°	102.8	114.6	116.0	75.7	51.4	106.3	147.9	159.8	152.1
102.5°	152.1	165.3	161.8	175.7	180.6	195.9	199.3	214.6	208.4
105°	205.6	220.2	218.1	232.0	233.4	250.7	257.7	266.7	263.2
107.5°	261.9	272.3	277.8	286.9	286.2	304.9	318.8	323.0	319.5
110°	319.5	326.4	336.9	343.1	343.1	361.9	377.8	378.5	375.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	374.4	386.2	395.9	403.5	402.2	422.3	433.4	435.5	431.3
115°	432.7	437.6	450.8	461.9	464.0	479.3	486.9	489.0	484.8
117.5°	486.2	493.8	502.2	515.4	522.3	532.0	537.6	541.1	536.9
120°	543.2	548.0	552.9	565.4	577.9	583.4	587.6	590.4	586.9
122.5°	592.5	595.9	606.4	614.7	627.2	631.4	637.6	636.9	634.1
125°	636.2	641.1	656.4	661.2	671.6	677.2	684.8	680.7	680.7
127.5°	682.1	686.2	705.7	706.4	716.1	722.3	732.1	725.1	725.8
130°	727.2	734.2	751.5	751.5	759.2	766.1	777.2	766.8	769.6
132.5°	775.1	777.2	793.2	793.9	800.8	807.8	821.0	807.1	809.9
135°	818.9	816.8	837.6	834.2	843.9	848.1	861.3	844.6	849.5
137.5°	858.5	853.6	875.8	872.4	882.8	883.5	897.4	881.4	887.0
140°	897.4	891.8	910.6	908.5	920.3	918.9	929.3	916.1	923.8
142.5°	932.1	925.9	943.9	943.2	952.2	952.2	961.3	950.2	961.3
145°	966.1	957.8	974.5	973.8	983.5	982.8	991.1	980.7	991.1
147.5°	998.1	989.8	1003.0	1001.6	1009.9	1010.6	1017.5	1011.3	1022.4
150°	1027.3	1019.6	1028.0	1027.3	1034.9	1035.6	1042.5	1039.8	1048.1
152.5°	1053.7	1046.7	1050.9	1049.5	1060.6	1056.4	1064.8	1063.4	1072.4
155°	1078.0	1071.0	1074.5	1071.7	1079.4	1078.7	1087.7	1086.3	1096.7
157.5°	1100.2	1092.6	1095.3	1091.2	1096.7	1096.7	1107.1	1107.1	1114.8
160°	1121.7	1111.3	1114.8	1107.8	1109.9	1112.7	1125.2	1125.2	1132.1
162.5°	1137.0	1130.1	1132.1	1122.4	1124.5	1125.9	1140.5	1140.5	1148.8
165°	1153.7	1144.6	1146.7	1134.9	1135.6	1139.1	1153.7	1154.4	1163.4
167.5°	1166.9	1157.8	1157.1	1145.3	1148.8	1149.5	1163.4	1164.1	1173.8
170°	1177.3	1167.6	1167.6	1155.1	1157.8	1156.5	1171.0	1173.1	1181.5
172.5°	1182.8	1175.9	1173.8	1159.9	1159.2	1161.3	1176.6	1179.4	1187.7
175°	1189.8	1181.5	1178.0	1164.8	1159.2	1166.2	1180.1	1182.8	1192.6
177.5°	1191.9	1183.5	1180.8	1166.9	1166.9	1168.3	1182.2	1184.2	1191.9
180°	1179.4	1179.4	1179.4	1179.4	1179.4	1179.4	1179.4	1179.4	1179.4

(END OF REPORT)