

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: P199537

Luminaire Tested: **S125-DIP-U2-1-30-X-X0048-1D-UDD-1-5-W**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P199537  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P27900 P27900)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S125-DIP-U2-1-30-X-X0048-1D-UDD-1-5-W  
Description: DEFINE 5-INCH DIRECT/INDIRECT PENDANT LED LUMINAIRE  
UPLIGHT LL2-3000K, SATIN WHITE DIFFUSER  
DOWNLIGHT LL1-3000K, SATIN WHITE DIFFUSER  
Light Source: -  
757G  
Ballast/Driver: ELECTRONIC DRIVERS

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7003.2 lumens  
Efficiency: N/A  
Efficacy: 106.9 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: Semi-Indirect

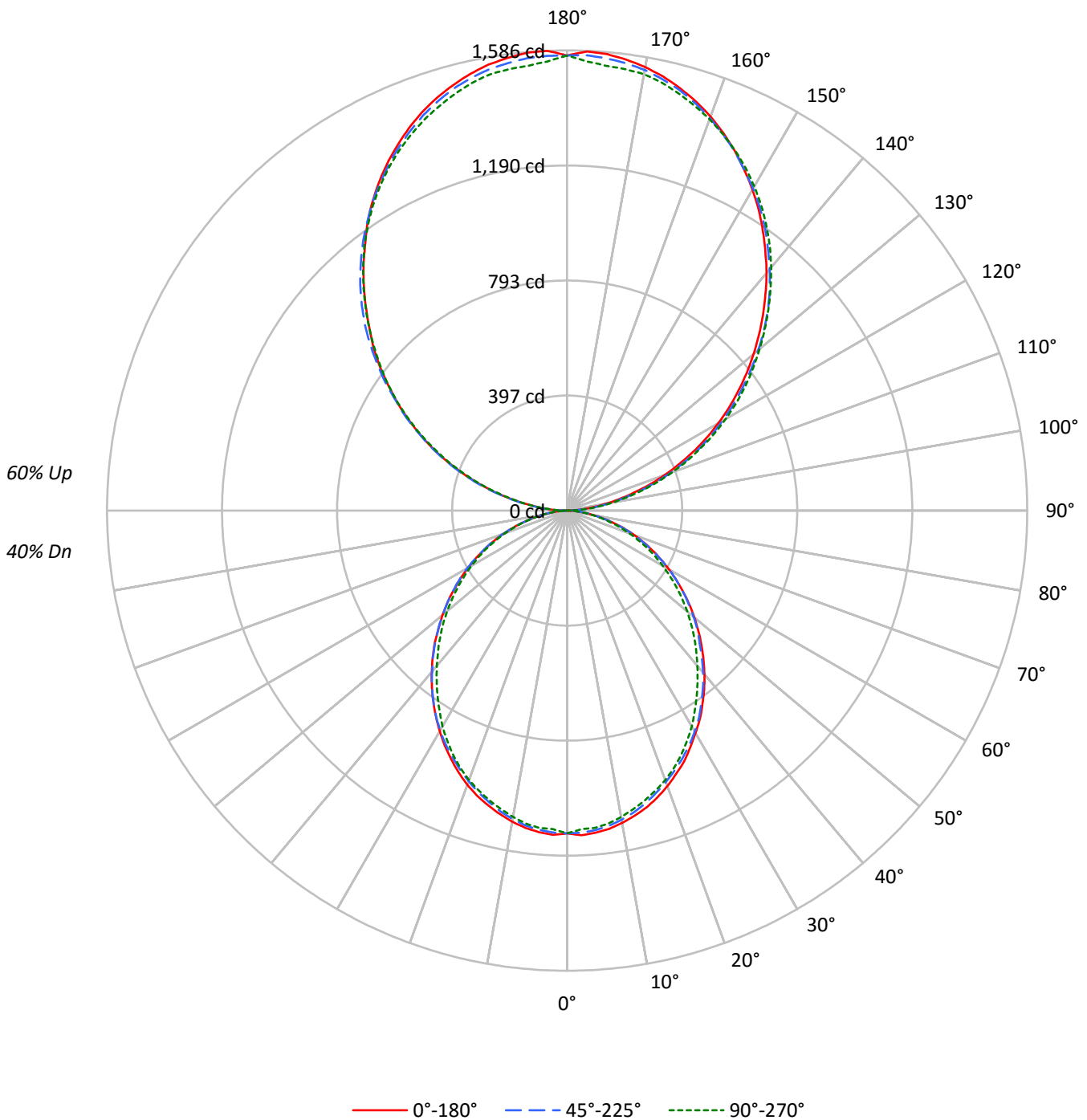
Input Watts (W): 65.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																		
0	105	105	105	105	95	95	95	95	78	78	78	61	61	61	47	47	47	40
1	96	91	87	84	87	83	80	77	68	66	64	54	53	51	41	40	39	34
2	87	80	74	69	79	73	68	63	60	56	53	48	45	43	36	35	33	28
3	79	70	63	57	72	64	58	53	53	48	44	42	39	36	32	30	28	24
4	73	62	54	48	66	57	50	45	47	42	38	37	34	31	29	26	24	21
5	67	55	47	41	60	51	44	38	42	37	33	34	30	27	26	23	21	18
6	61	49	42	36	56	45	38	33	38	32	28	30	27	24	24	21	19	16
7	57	45	37	31	51	41	34	29	34	29	25	28	24	21	22	19	17	14
8	52	40	33	28	48	37	30	26	31	26	22	25	21	19	20	17	15	12
9	49	37	30	25	44	34	27	23	28	23	20	23	19	17	18	16	14	11
10	46	34	27	22	41	31	25	21	26	21	18	21	18	15	17	14	12	10

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	7038	7038	7038
5°	7021	6461	7009
10°	6908	5945	6882
15°	6768	5458	6724
20°	6583	5013	6551
25°	6385	4569	6330
30°	6140	4130	6093
35°	5904	3690	5835
40°	5643	3287	5565
45°	5367	2918	5289
50°	5074	2564	4977
55°	4760	2218	4647
60°	4422	1879	4303
65°	4053	1552	3908
70°	3620	1204	3449
75°	3036	855	2825
80°	2300	532	2103
85°	1374	232	1204



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	104.6	1.5
10°-20°	293.7	4.2
20°-30°	431.4	6.2
30°-40°	498.3	7.1
40°-50°	493.9	7.1
50°-60°	428.4	6.1
60°-70°	312.9	4.5
70°-80°	171.0	2.4
80°-90°	44.4	0.6
90°-100°	77.7	1.1
100°-110°	280.9	4.0
110°-120°	499.7	7.1
120°-130°	666.4	9.5
130°-140°	753.9	10.8
140°-150°	744.7	10.6
150°-160°	630.6	9.0
160°-170°	422.3	6.0
170°-180°	148.2	2.1
0°-30°	829.7	11.8
0°-40°	1328.0	19.0
0°-60°	2250.3	32.1
0°-90°	2778.7	39.7
90°-120°	858.3	12.3
90°-150°	3023.3	43.2
90°-180°	4225.0	60.3
0°-180°	7003.2	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1112	1112	1112	1112	1112	
5°	1114	1106	1098	1104	1112	106
15°	1059	1044	1034	1040	1052	298
25°	954	941	929	937	946	438
35°	814	807	779	804	804	509
45°	655	646	620	643	645	505
55°	488	488	460	479	477	437
65°	324	321	304	314	312	321
75°	167	165	152	156	155	178
85°	39	41	36	36	34	44
90°	1	3	1	2	1	5
95°	54	64	71	74	69	61
105°	238	257	267	276	272	255
115°	479	499	507	518	515	474
125°	720	738	751	762	753	644
135°	955	978	981	1001	979	737
145°	1176	1189	1198	1205	1202	736
155°	1367	1366	1369	1378	1387	629
165°	1507	1500	1488	1507	1518	425
175°	1579	1564	1539	1565	1584	150
180°	1568	1568	1568	1568	1568	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1112.5	1112.5	1112.5	1112.5	1112.5	1112.5	1112.5	1112.5	1112.5
2.5°	1120.0	1108.4	1111.1	1109.1	1099.5	1107.7	1110.4	1106.4	1118.6
5°	1114.5	1102.9	1105.7	1102.9	1097.5	1101.6	1104.3	1100.2	1112.5
7.5°	1106.4	1094.1	1096.1	1093.4	1088.0	1091.4	1094.8	1090.7	1102.9
10°	1092.7	1081.2	1081.8	1078.4	1072.3	1076.4	1079.8	1076.4	1088.6
12.5°	1077.1	1064.8	1064.8	1059.4	1053.9	1057.3	1062.1	1059.4	1071.6
15°	1058.7	1045.8	1043.7	1040.3	1034.2	1038.3	1040.3	1039.6	1051.9
17.5°	1036.2	1022.6	1019.9	1019.2	1011.7	1017.2	1017.8	1015.8	1030.8
20°	1010.4	997.4	995.4	994.7	988.6	992.7	992.7	989.9	1005.6
22.5°	981.8	969.5	968.8	967.5	960.7	965.4	965.4	961.3	977.0
25°	953.8	938.9	940.9	937.5	929.3	936.1	936.8	930.0	945.7
27.5°	919.1	907.5	911.6	905.5	894.6	903.5	907.5	897.3	913.7
30°	885.1	872.8	879.6	868.7	859.2	867.4	874.9	861.9	878.3
32.5°	851.7	837.4	845.6	832.0	818.4	828.6	840.8	828.6	841.5
35°	813.6	802.0	806.8	792.5	778.9	789.1	804.1	792.5	804.1
37.5°	775.5	765.9	769.3	752.3	738.7	748.9	764.6	755.7	765.9
40°	736.0	729.2	729.2	712.1	698.5	708.1	724.4	719.6	725.8
42.5°	695.1	692.4	687.0	672.0	659.0	668.6	684.2	682.9	685.6
45°	655.0	655.0	646.1	630.4	619.6	628.4	642.7	646.1	645.4
47.5°	613.4	616.8	609.3	592.3	580.1	588.9	601.9	608.0	601.2
50°	571.9	578.0	568.5	553.5	539.9	549.4	560.3	568.5	561.0
52.5°	530.4	537.9	527.6	513.3	499.7	508.6	519.5	529.0	519.5
55°	488.2	497.0	487.5	472.5	459.6	467.7	478.6	488.2	476.6
57.5°	446.6	454.8	446.6	431.6	419.4	426.9	438.5	445.9	435.7
60°	405.1	413.9	405.8	391.5	379.9	386.0	396.9	404.4	394.2
62.5°	364.2	371.7	362.9	351.3	342.5	345.2	355.4	364.2	353.4
65°	324.1	330.9	321.4	311.1	303.7	305.0	313.9	318.6	312.5
67.5°	284.6	292.1	281.9	272.3	263.5	266.2	273.7	280.5	273.0
70°	245.1	252.6	241.7	233.5	226.0	227.4	233.5	241.0	233.5
72.5°	206.3	212.4	204.9	195.4	190.0	191.3	194.7	201.5	194.0
75°	166.8	173.6	165.4	158.0	152.5	153.9	155.9	161.4	155.2
77.5°	130.0	134.8	129.4	123.2	119.8	120.5	121.2	125.3	119.8
80°	96.0	100.1	96.7	91.9	89.2	89.2	89.2	92.6	87.8
82.5°	65.4	69.4	66.7	63.3	61.3	59.2	60.6	63.3	59.2
85°	38.8	42.2	40.8	37.4	36.1	34.7	36.1	37.4	34.0
87.5°	17.7	20.4	18.4	15.0	13.6	12.3	12.3	14.3	11.6
90°	1.4	3.4	2.7	2.0	1.4	1.4	2.0	2.7	1.4
92.5°	18.6	25.5	25.5	22.5	27.4	31.4	38.2	38.2	33.3
95°	53.9	60.8	63.7	65.7	70.6	72.5	74.5	74.5	68.6
97.5°	92.1	101.9	103.9	106.8	112.7	113.7	116.6	117.6	110.8
100°	135.3	147.0	149.0	152.9	159.8	160.8	164.7	166.6	159.8
102.5°	184.3	198.0	200.9	203.9	208.8	212.7	217.6	220.6	212.7
105°	238.2	254.9	256.8	260.7	266.6	270.5	276.4	278.4	271.5
107.5°	298.0	310.7	316.6	318.6	324.5	328.4	336.2	337.2	331.3
110°	356.8	368.6	376.4	378.4	384.2	388.2	396.0	396.0	391.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	417.6	430.3	437.2	439.1	446.0	448.9	456.8	457.8	452.9
115°	479.3	491.1	498.9	500.9	506.8	510.7	517.6	519.5	514.6
117.5°	541.1	552.8	558.7	562.6	569.5	572.5	576.4	579.3	574.4
120°	600.9	612.6	617.5	623.4	630.3	633.2	639.1	637.1	634.2
122.5°	661.7	672.4	677.3	684.2	692.0	693.0	696.9	696.0	694.0
125°	720.5	729.3	738.1	742.0	750.9	750.9	761.6	752.8	752.8
127.5°	780.3	787.1	798.9	800.8	808.7	809.7	822.4	809.7	812.6
130°	839.1	844.0	859.7	859.7	865.5	867.5	884.2	866.5	870.4
132.5°	896.9	900.8	919.5	917.5	923.4	925.3	944.0	923.4	922.4
135°	954.7	956.7	978.3	975.3	981.2	984.1	1000.8	978.3	979.2
137.5°	1011.6	1010.6	1033.2	1032.2	1038.1	1040.0	1055.7	1029.2	1036.1
140°	1069.4	1062.6	1086.1	1088.1	1093.9	1095.9	1106.7	1086.1	1092.0
142.5°	1122.4	1119.4	1137.1	1140.0	1147.8	1147.8	1157.6	1137.1	1144.9
145°	1176.3	1169.4	1189.0	1189.0	1197.8	1196.9	1204.7	1191.0	1201.8
147.5°	1229.2	1220.4	1237.0	1238.0	1245.9	1245.9	1252.7	1239.0	1252.7
150°	1277.2	1269.4	1281.2	1282.1	1290.0	1289.0	1295.9	1289.0	1300.8
152.5°	1323.3	1315.5	1323.3	1322.3	1332.1	1329.2	1338.0	1332.1	1345.9
155°	1367.4	1358.6	1365.5	1361.5	1369.4	1368.4	1378.2	1376.2	1387.0
157.5°	1407.6	1397.8	1403.7	1398.8	1403.7	1404.7	1415.4	1414.5	1426.2
160°	1444.9	1435.1	1439.0	1430.2	1435.1	1436.0	1449.8	1449.8	1461.5
162.5°	1478.2	1467.4	1471.3	1457.6	1462.5	1462.5	1480.1	1480.1	1491.9
165°	1506.6	1496.8	1499.7	1483.1	1488.0	1489.0	1506.6	1507.6	1518.4
167.5°	1532.1	1521.3	1522.3	1506.6	1510.5	1511.5	1527.2	1529.2	1541.9
170°	1551.7	1541.9	1541.9	1524.3	1527.2	1528.2	1544.8	1547.8	1560.5
172.5°	1567.4	1556.6	1554.6	1536.0	1534.1	1539.0	1555.6	1561.5	1573.3
175°	1579.1	1567.4	1564.4	1545.8	1539.0	1548.8	1565.4	1570.3	1584.0
177.5°	1584.0	1572.3	1570.3	1550.7	1549.7	1552.7	1568.4	1574.2	1586.0
180°	1568.4	1568.4	1568.4	1568.4	1568.4	1568.4	1568.4	1568.4	1568.4

(END OF REPORT)