

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: P231767

Luminaire Tested: **S125-RDR-2-27-X-0048-1-U-DD-1-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P231767
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33920)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125-RDR-2-27-X-0048-1-U-DD-1-W
Description: DEFINE 5 LED LINEAR REGRESSED DIRECT RECESSED LED LUMINAIRE WITH FLUSH LENS.
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3015.7 lumens
Efficiency: N/A
Efficacy: 70.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.11 / 1.26
Luminous Opening: Rectangular (W 0.39' x L: 3.92' x H: 0')
CIE Type: Direct

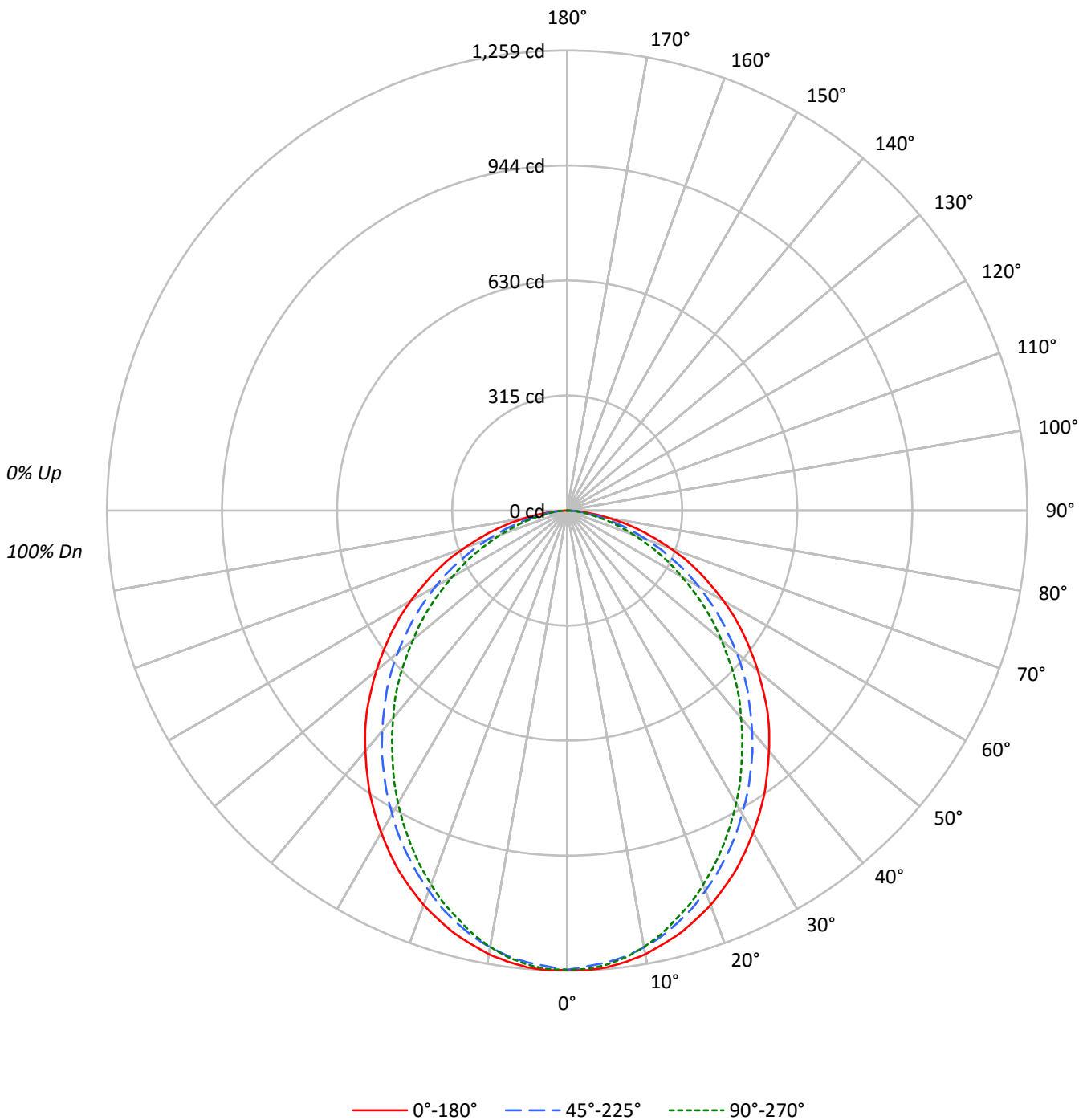
Input Watts (W): 42.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	84	79	76	81	77	74	72
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61
4	84	73	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55	53
5	78	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	46
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	41
7	67	53	45	39	65	53	45	39	51	44	39	50	43	38	48	42	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	45	39	34	32
9	58	45	37	32	57	44	37	31	43	36	31	42	36	31	41	35	31	29
10	55	42	34	29	53	41	34	29	40	33	29	39	33	28	38	33	28	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8856	8856	8856
5°	8873	8779	8821
10°	8820	8683	8674
15°	8730	8519	8432
20°	8613	8298	8163
25°	8463	8062	7856
30°	8281	7792	7527
35°	8103	7525	7162
40°	7903	7239	6808
45°	7723	6957	6466
50°	7468	6638	6033
55°	7232	6273	5624
60°	6959	5859	5113
65°	6651	5349	4607
70°	6164	4753	3985
75°	5562	3991	3338
80°	4630	3072	2585
85°	3307	2523	2426



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.2	3.9
10°-20°	330.7	11.0
20°-30°	480.8	15.9
30°-40°	551.4	18.3
40°-50°	542.6	18.0
50°-60°	461.2	15.3
60°-70°	326.0	10.8
70°-80°	165.3	5.5
80°-90°	39.4	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°	929.7	30.8
0°-40°	1481.2	49.1
0°-60°	2485.0	82.4
0°-90°	3015.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3015.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1257	1257	1257	1257	1257	
5°	1254	1251	1241	1248	1247	119
15°	1197	1190	1168	1163	1156	337
25°	1088	1070	1037	1021	1010	501
35°	942	918	875	848	833	589
45°	775	745	698	660	649	596
55°	589	556	511	472	458	526
65°	399	366	321	290	276	394
75°	204	180	147	127	123	216
85°	41	35	31	30	30	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1256.8	1256.8	1256.8	1256.8	1256.8
2.5°	1259.2	1256.8	1248.3	1256.8	1255.6
5°	1254.4	1250.7	1241.1	1248.3	1247.1
7.5°	1244.7	1241.1	1230.3	1235.1	1232.7
10°	1232.7	1227.9	1213.5	1215.9	1212.3
12.5°	1214.7	1209.9	1193.1	1191.9	1187.1
15°	1196.7	1189.5	1167.8	1163.0	1155.8
17.5°	1172.6	1164.2	1140.2	1133.0	1125.8
20°	1148.6	1136.6	1106.6	1099.4	1088.5
22.5°	1118.6	1104.2	1072.9	1062.1	1051.3
25°	1088.5	1070.5	1036.9	1021.3	1010.4
27.5°	1053.7	1036.9	999.6	979.2	968.4
30°	1017.7	997.2	957.6	937.2	925.1
32.5°	980.4	957.6	917.9	891.5	880.7
35°	942.0	917.9	874.7	848.2	832.6
37.5°	899.9	874.7	832.6	802.6	787.0
40°	859.1	832.6	787.0	755.7	740.1
42.5°	818.2	790.6	741.3	708.9	696.9
45°	775.0	744.9	698.1	659.6	648.8
47.5°	726.9	699.3	652.4	615.2	598.3
50°	681.2	652.4	605.5	568.3	550.3
52.5°	634.4	606.7	556.3	520.2	505.8
55°	588.7	556.3	510.6	472.2	457.8
57.5°	543.1	509.4	462.6	426.5	408.5
60°	493.8	461.4	415.7	379.7	362.8
62.5°	444.5	414.5	370.1	335.2	320.8
65°	398.9	366.5	320.8	289.6	276.3
67.5°	350.8	322.0	276.3	246.3	234.3
70°	299.2	273.9	230.7	203.1	193.4
72.5°	251.1	225.9	188.6	164.6	156.2
75°	204.3	180.2	146.6	127.4	122.6
77.5°	157.4	138.2	109.3	93.7	90.1
80°	114.1	100.9	75.7	67.3	63.7
82.5°	74.5	63.7	50.5	48.1	46.9
85°	40.9	34.8	31.2	30.0	30.0
87.5°	14.4	15.6	14.4	14.4	14.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)