

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: P231699

Luminaire Tested: **S125-DR-LO-27-X-0048-1-U-DD-1-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P231699
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29677)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125-DR-LO-27-X-0048-1-U-DD-1-W
Description: DEFINE 5 LED LINEAR 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: 1080.8 lumens
Efficiency: N/A
Efficacy: 79.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.15 / 1.29
Luminous Opening: Rectangular (W 0.39' x L: 3.92' x H: 0')
CIE Type: Direct

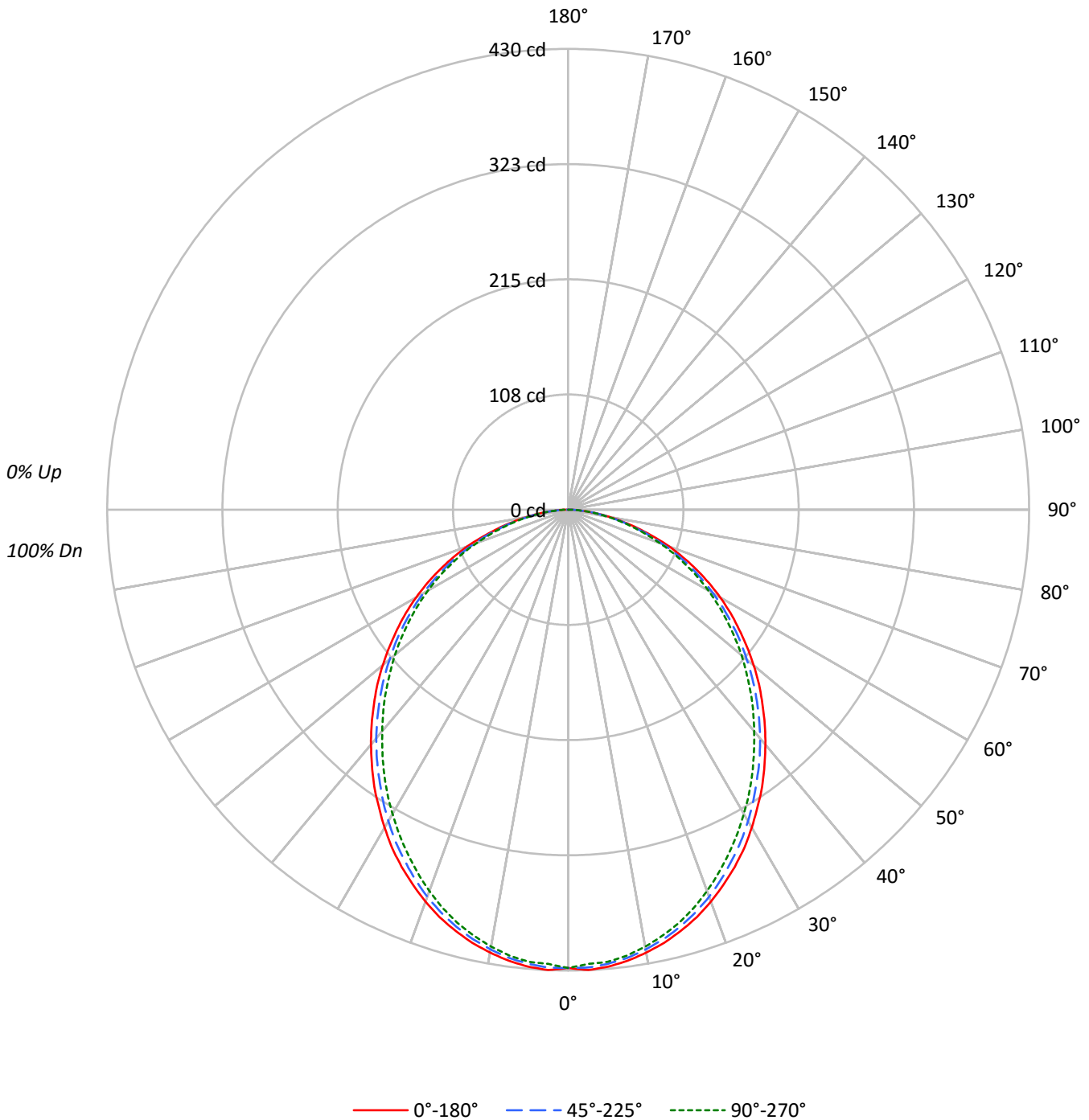
Input Watts (W): 13.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	85	79	97	89	83	78	86	81	76	83	78	74	80	76	73	71
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51
5	77	64	55	49	75	63	55	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	43	69	57	48	42	55	48	42	53	47	42	52	46	41	39
7	66	53	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31
9	57	44	36	31	56	44	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3013	3013	3013
5°	3028	3008	2995
10°	3002	2981	2962
15°	2967	2939	2912
20°	2919	2882	2839
25°	2858	2808	2755
30°	2787	2731	2666
35°	2714	2642	2576
40°	2633	2563	2483
45°	2553	2473	2398
50°	2475	2383	2313
55°	2391	2297	2222
60°	2308	2201	2127
65°	2199	2091	2009
70°	2060	1926	1865
75°	1843	1748	1688
80°	1591	1526	1497
85°	1318	1294	1294



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.2	3.7
10°-20°	113.2	10.5
20°-30°	165.7	15.3
30°-40°	191.7	17.7
40°-50°	191.1	17.7
50°-60°	167.3	15.5
60°-70°	124.3	11.5
70°-80°	68.6	6.4
80°-90°	18.6	1.7
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°	319.2	29.5
0°-40°	510.8	47.3
0°-60°	869.3	80.4
0°-90°	1080.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1080.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	428	428	428	428	428	
5°	428	423	425	424	423	41
15°	407	402	403	400	399	115
25°	368	362	361	355	354	169
35°	316	311	307	301	300	197
45°	256	253	248	241	241	198
55°	195	192	187	182	181	174
65°	132	129	125	122	120	131
75°	68	66	64	63	62	72
85°	16	16	16	16	16	19
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	427.6	427.6	427.6	427.6	427.6
2.5°	429.9	425.3	427.6	426.5	424.2
5°	428.0	423.4	425.3	423.8	423.4
7.5°	424.6	420.0	421.9	420.0	419.6
10°	419.6	415.1	416.6	414.7	413.9
12.5°	413.9	409.0	410.5	407.9	407.1
15°	406.7	401.8	402.9	400.3	399.1
17.5°	398.7	393.4	394.2	390.8	389.6
20°	389.2	384.3	384.3	379.4	378.6
22.5°	378.6	373.7	373.3	367.6	366.8
25°	367.6	361.9	361.1	355.4	354.3
27.5°	355.8	350.5	348.9	342.5	341.3
30°	342.5	337.2	335.6	328.8	327.7
32.5°	328.8	324.6	321.6	315.1	314.0
35°	315.5	310.6	307.1	300.7	299.5
37.5°	300.7	296.1	293.1	285.8	284.7
40°	286.2	282.0	278.6	271.4	269.9
42.5°	271.4	267.6	263.4	256.2	255.4
45°	256.2	252.8	248.2	241.4	240.6
47.5°	241.4	237.6	233.0	226.5	225.4
50°	225.8	222.4	217.4	211.7	211.0
52.5°	210.2	207.2	202.6	196.5	195.8
55°	194.6	192.0	187.0	181.7	180.9
57.5°	179.4	176.4	171.8	166.9	166.1
60°	163.8	160.8	156.2	152.0	150.9
62.5°	147.9	144.8	140.6	136.8	136.1
65°	131.9	128.9	125.4	122.0	120.5
67.5°	115.9	113.3	109.9	106.8	106.1
70°	100.0	97.3	93.5	91.2	90.5
72.5°	83.2	81.0	79.1	76.8	76.0
75°	67.7	66.1	64.2	62.7	62.0
77.5°	52.8	51.7	50.9	49.4	49.4
80°	39.2	38.4	37.6	36.9	36.9
82.5°	26.6	26.2	26.2	25.5	25.8
85°	16.3	16.0	16.0	15.6	16.0
87.5°	8.0	7.6	7.6	7.2	7.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)