

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: P231700

Luminaire Tested: **S125-DR-LO-30-X-0048-1-U-DD-1-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P231700
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-30-X-0048-1-U-DD-1-W
Description: DEFINE 5 LED LINEAR DIRECT RECESSED LED LUMINAIRE WITH FLUSH LENS.
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1346.5 lumens
Efficiency: N/A
Efficacy: 99.0 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

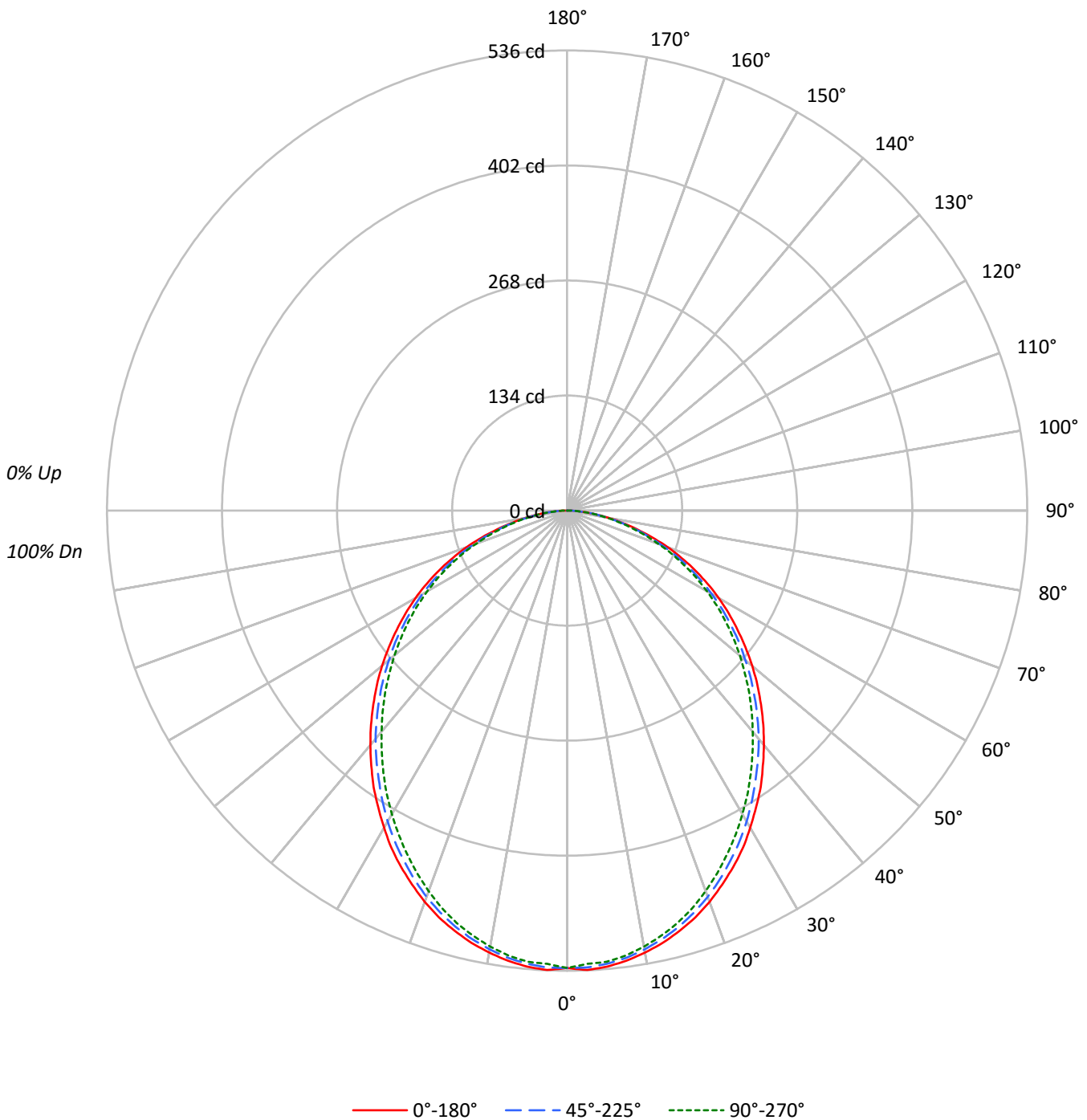
Input Watts (W): 13.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84					84			
2	99	91	85	79	97	89	83	78	86	81	76	83	78	74	80	76	73	71					71			
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60					60			
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51					51			
5	77	64	55	49	75	63	55	48	61	53	48	59	52	47	57	51	47	45					45			
6	71	58	49	43	69	57	48	42	55	48	42	53	47	42	52	46	41	39					39			
7	66	53	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35					35			
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31					31			
9	57	44	36	31	56	44	36	30	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3754	3754	3754
5°	3772	3748	3731
10°	3741	3714	3690
15°	3697	3661	3627
20°	3636	3590	3536
25°	3560	3498	3431
30°	3471	3402	3321
35°	3381	3291	3210
40°	3280	3193	3093
45°	3181	3081	2987
50°	3084	2970	2881
55°	2978	2863	2769
60°	2876	2743	2650
65°	2740	2606	2503
70°	2565	2400	2322
75°	2295	2178	2102
80°	1980	1903	1863
85°	1649	1609	1609



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.1	3.7
10°-20°	141.0	10.5
20°-30°	206.4	15.3
30°-40°	238.8	17.7
40°-50°	238.1	17.7
50°-60°	208.5	15.5
60°-70°	154.8	11.5
70°-80°	85.5	6.4
80°-90°	23.2	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°	397.6	29.5
0°-40°	636.4	47.3
0°-60°	1083.0	80.4
0°-90°	1346.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1346.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	533	533	533	533	533	
5°	533	528	530	528	528	51
15°	507	500	502	499	497	143
25°	458	451	450	443	441	211
35°	393	387	383	375	373	246
45°	319	315	309	301	300	246
55°	242	239	233	226	225	217
65°	164	160	156	152	150	163
75°	84	82	80	78	77	90
85°	20	20	20	19	20	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	532.7	532.7	532.7	532.7	532.7
2.5°	535.6	529.9	532.7	531.3	528.5
5°	533.2	527.5	529.9	528.0	527.5
7.5°	528.9	523.2	525.6	523.2	522.8
10°	522.8	517.1	519.0	516.6	515.7
12.5°	515.7	509.5	511.4	508.1	507.1
15°	506.7	500.5	501.9	498.6	497.2
17.5°	496.7	490.1	491.0	486.8	485.4
20°	484.9	478.7	478.7	472.6	471.6
22.5°	471.6	465.5	465.0	457.9	457.0
25°	457.9	450.8	449.9	442.7	441.3
27.5°	443.2	436.6	434.7	426.6	425.2
30°	426.6	420.0	418.1	409.6	408.2
32.5°	409.6	404.4	400.6	392.6	391.1
35°	393.0	386.9	382.6	374.6	373.1
37.5°	374.6	368.9	365.1	356.1	354.7
40°	356.6	351.4	347.1	338.1	336.2
42.5°	338.1	333.4	328.2	319.2	318.2
45°	319.2	314.9	309.2	300.7	299.7
47.5°	300.7	296.0	290.3	282.2	280.8
50°	281.3	277.0	270.9	263.8	262.8
52.5°	261.9	258.1	252.4	244.8	243.9
55°	242.4	239.1	233.0	226.3	225.4
57.5°	223.5	219.7	214.0	207.9	206.9
60°	204.1	200.3	194.6	189.4	188.0
62.5°	184.2	180.4	175.2	170.5	169.5
65°	164.3	160.5	156.3	152.0	150.1
67.5°	144.4	141.1	136.8	133.1	132.1
70°	124.5	121.2	116.5	113.6	112.7
72.5°	103.7	100.9	98.5	95.7	94.7
75°	84.3	82.4	80.0	78.1	77.2
77.5°	65.8	64.4	63.5	61.6	61.6
80°	48.8	47.8	46.9	45.9	45.9
82.5°	33.1	32.7	32.7	31.7	32.2
85°	20.4	19.9	19.9	19.4	19.9
87.5°	9.9	9.5	9.5	9.0	9.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)