

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: P231702

Luminaire Tested: **S125-DR-LO-40-X-0048-1-U-DD-1-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P231702
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-40-X-0048-1-U-DD-1-W
Description: DEFINE 5 LED LINEAR DIRECT RECESSED LED LUMINAIRE WITH FLUSH LENS.
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1427.3 lumens
Efficiency: N/A
Efficacy: 104.9 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

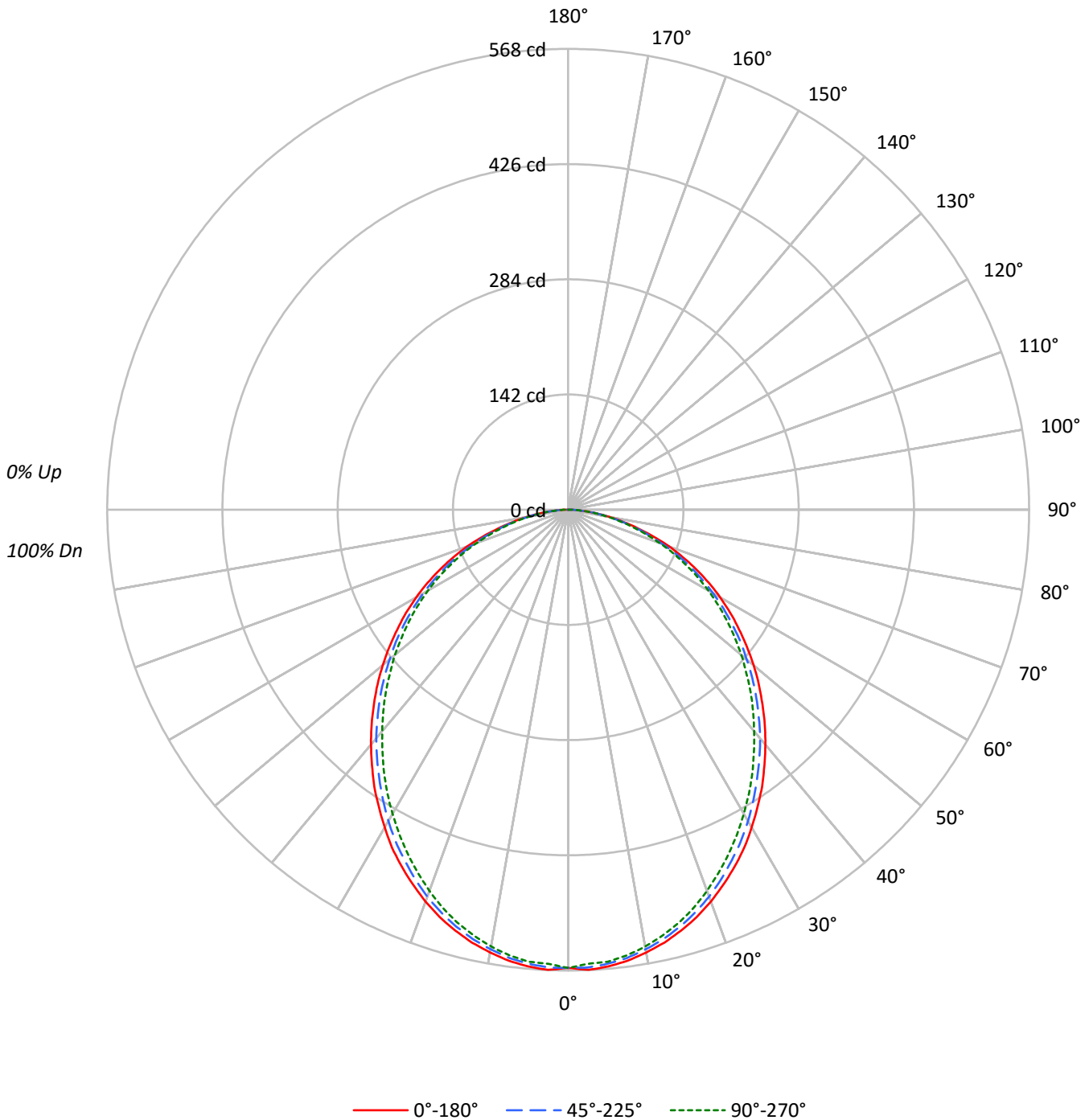
Input Watts (W): 13.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P231702

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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°	3979	3979	3979
5°	3998	3973	3956
10°	3965	3936	3911
15°	3918	3882	3845
20°	3854	3806	3749
25°	3774	3707	3637
30°	3679	3606	3521
35°	3584	3489	3402
40°	3477	3384	3278
45°	3371	3267	3166
50°	3269	3147	3054
55°	3157	3035	2935
60°	3048	2907	2809
65°	2905	2761	2653
70°	2720	2544	2462
75°	2431	2309	2227
80°	2098	2017	1976
85°	1746	1706	1706



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.2	3.7
10°-20°	149.5	10.5
20°-30°	218.8	15.3
30°-40°	253.1	17.7
40°-50°	252.4	17.7
50°-60°	221.0	15.5
60°-70°	164.1	11.5
70°-80°	90.7	6.4
80°-90°	24.5	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°	421.5	29.5
0°-40°	674.6	47.3
0°-60°	1147.9	80.4
0°-90°	1427.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1427.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	565	565	565	565	565	
5°	565	559	562	560	559	54
15°	537	530	532	528	527	151
25°	485	478	477	469	468	223
35°	417	410	406	397	396	260
45°	338	334	328	319	318	261
55°	257	254	247	240	239	230
65°	174	170	166	161	159	172
75°	89	87	85	83	82	95
85°	22	21	21	21	21	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	564.7	564.7	564.7	564.7	564.7
2.5°	567.7	561.7	564.7	563.2	560.2
5°	565.2	559.2	561.7	559.7	559.2
7.5°	560.7	554.6	557.2	554.6	554.1
10°	554.1	548.1	550.1	547.6	546.6
12.5°	546.6	540.1	542.1	538.6	537.6
15°	537.1	530.5	532.1	528.5	527.0
17.5°	526.5	519.5	520.5	516.0	514.5
20°	514.0	507.5	507.5	500.9	499.9
22.5°	499.9	493.4	492.9	485.4	484.4
25°	485.4	477.8	476.8	469.3	467.8
27.5°	469.8	462.8	460.8	452.2	450.7
30°	452.2	445.2	443.2	434.2	432.7
32.5°	434.2	428.7	424.6	416.1	414.6
35°	416.6	410.1	405.6	397.0	395.5
37.5°	397.0	391.0	387.0	377.5	376.0
40°	378.0	372.4	367.9	358.4	356.4
42.5°	358.4	353.4	347.8	338.3	337.3
45°	338.3	333.8	327.8	318.7	317.7
47.5°	318.7	313.7	307.7	299.2	297.6
50°	298.2	293.6	287.1	279.6	278.6
52.5°	277.6	273.6	267.5	259.5	258.5
55°	257.0	253.5	247.0	239.9	238.9
57.5°	236.9	232.9	226.9	220.4	219.3
60°	216.3	212.3	206.3	200.8	199.3
62.5°	195.3	191.2	185.7	180.7	179.7
65°	174.2	170.2	165.6	161.1	159.1
67.5°	153.1	149.6	145.1	141.0	140.0
70°	132.0	128.5	123.5	120.5	119.5
72.5°	109.9	106.9	104.4	101.4	100.4
75°	89.3	87.3	84.8	82.8	81.8
77.5°	69.8	68.3	67.3	65.3	65.3
80°	51.7	50.7	49.7	48.7	48.7
82.5°	35.1	34.6	34.6	33.6	34.1
85°	21.6	21.1	21.1	20.6	21.1
87.5°	10.5	10.0	10.0	9.5	10.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)