

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: METALUX

Report Number: P184020

Luminaire Tested: **12SR-LD2-16-S-UNV-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P184020
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P166788)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 12SR-LD2-16-S-UNV-L850-CD1-U
Description: METALUX SKYRIDGE EDGELIT LED 1X2 TROFFER

Light Source: EATON LED 5000K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1757.5 lumens
Efficiency: N/A
Efficacy: 135.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.54 / 1.5
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

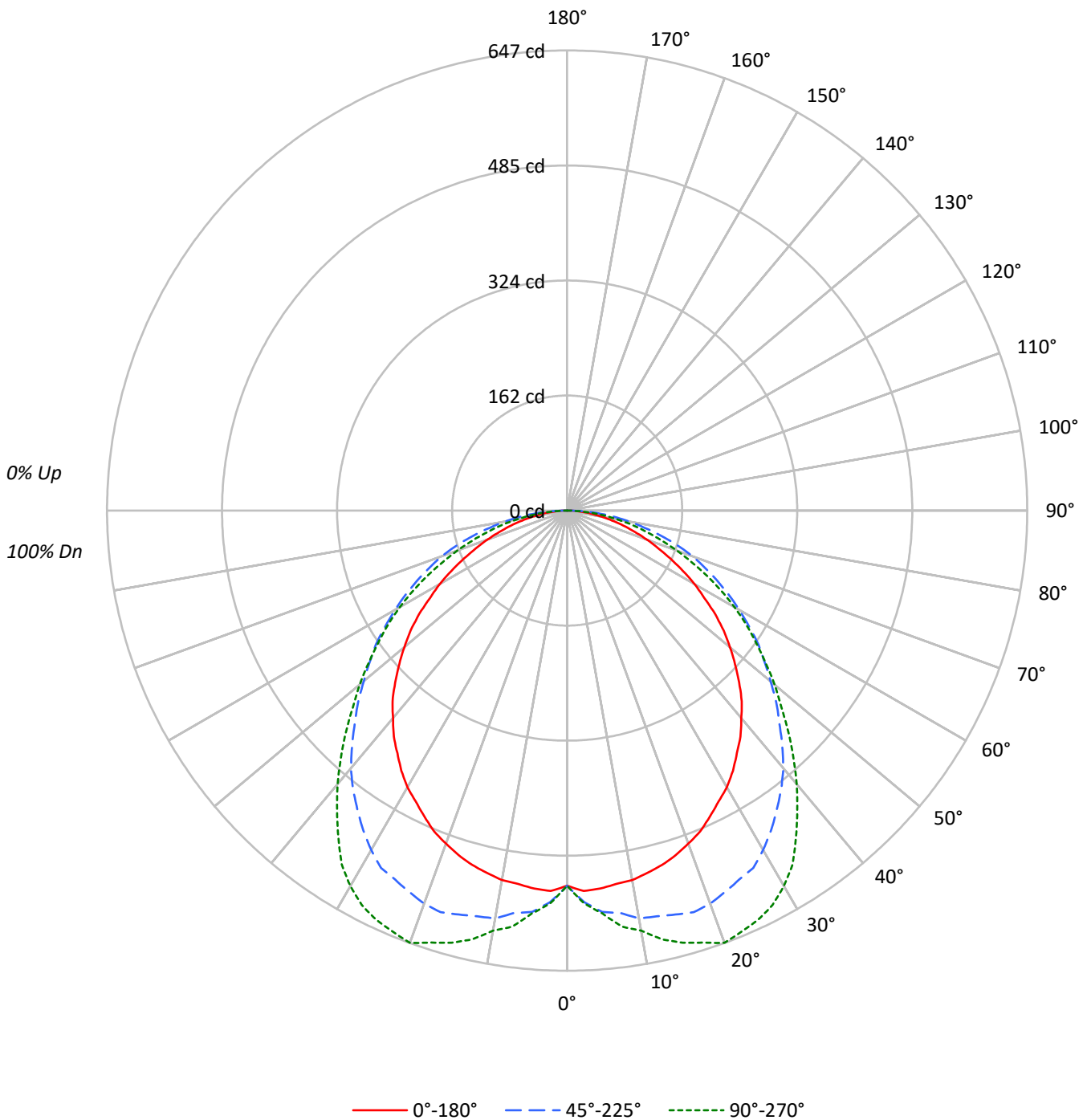
Input Watts (W): 13
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	73	61	53	47	59	52	46	57	51	46	55	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2839	2839	2839
5°	2882	3061	3072
10°	2883	3182	3278
15°	2874	3277	3505
20°	2854	3368	3704
25°	2820	3400	3771
30°	2792	3424	3788
35°	2734	3376	3685
40°	2677	3322	3528
45°	2603	3212	3346
50°	2503	3125	3190
55°	2384	3080	3043
60°	2230	3007	2923
65°	2041	2961	2762
70°	1876	2952	2582
75°	1705	2843	2398
80°	1512	2724	2241
85°	1445	2649	1933



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.7	3.1
10°-20°	164.4	9.4
20°-30°	259.7	14.8
30°-40°	312.3	17.8
40°-50°	312.5	17.8
50°-60°	274.9	15.6
60°-70°	210.1	12.0
70°-80°	128.5	7.3
80°-90°	41.5	2.4
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°	477.7	27.2
0°-40°	790.0	45.0
0°-60°	1377.4	78.4
0°-90°	1757.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1757.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	528	528	528	528	528	
5°	533	545	567	569	569	51
15°	516	545	588	617	629	145
25°	475	508	572	617	635	219
35°	416	447	514	551	561	261
45°	342	365	422	438	440	264
55°	254	287	328	326	324	226
65°	160	205	232	221	217	160
75°	82	131	137	121	115	87
85°	23	47	43	33	31	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	527.5	527.5	527.5	527.5	527.5
2.5°	535.3	533.4	550.9	553.0	553.0
5°	533.4	545.2	566.6	568.6	568.6
7.5°	529.5	553.0	570.5	584.2	590.0
10°	527.5	554.9	582.2	592.1	599.9
12.5°	521.7	550.9	584.2	605.7	617.4
15°	515.8	545.2	588.1	617.4	629.1
17.5°	508.0	541.2	592.1	623.3	636.9
20°	498.3	535.3	588.1	627.2	646.8
22.5°	488.4	521.7	580.3	625.2	640.9
25°	474.8	508.0	572.5	617.4	635.0
27.5°	461.1	494.3	566.6	609.6	625.2
30°	449.3	480.6	550.9	592.1	609.6
32.5°	433.7	465.0	533.4	574.4	590.0
35°	416.2	447.4	513.9	550.9	560.8
37.5°	400.5	427.9	494.3	523.6	531.5
40°	381.0	406.4	472.8	494.3	502.1
42.5°	363.4	388.8	447.4	470.9	470.9
45°	342.0	365.4	422.0	437.7	439.6
47.5°	320.4	347.7	398.6	408.3	408.3
50°	298.9	328.3	373.2	381.0	381.0
52.5°	277.4	306.7	349.8	353.6	351.7
55°	254.1	287.2	328.3	326.3	324.3
57.5°	228.6	265.7	302.9	298.9	298.9
60°	207.2	246.1	279.4	273.5	271.6
62.5°	183.6	224.7	256.0	248.2	244.2
65°	160.3	205.1	232.5	220.8	216.9
67.5°	138.8	187.6	209.1	193.5	189.5
70°	119.2	168.0	187.6	168.0	164.1
72.5°	99.7	148.5	162.2	144.5	138.8
75°	82.0	130.9	136.7	121.1	115.3
77.5°	64.5	111.3	111.3	95.7	93.8
80°	48.8	91.9	87.9	74.2	72.3
82.5°	35.1	68.4	66.5	54.7	50.9
85°	23.4	46.9	42.9	33.2	31.3
87.5°	11.8	23.4	19.6	13.7	13.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)