

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: P184019

Luminaire Tested: **12SR-LD2-16-S-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P184019
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-L840-CD1-U
Description: METALUX SKYRIDGE EDGELIT LED 1X2 TROFFER

Light Source: EATON LED 4000K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1615.0 lumens
Efficiency: N/A
Efficacy: 124.2 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

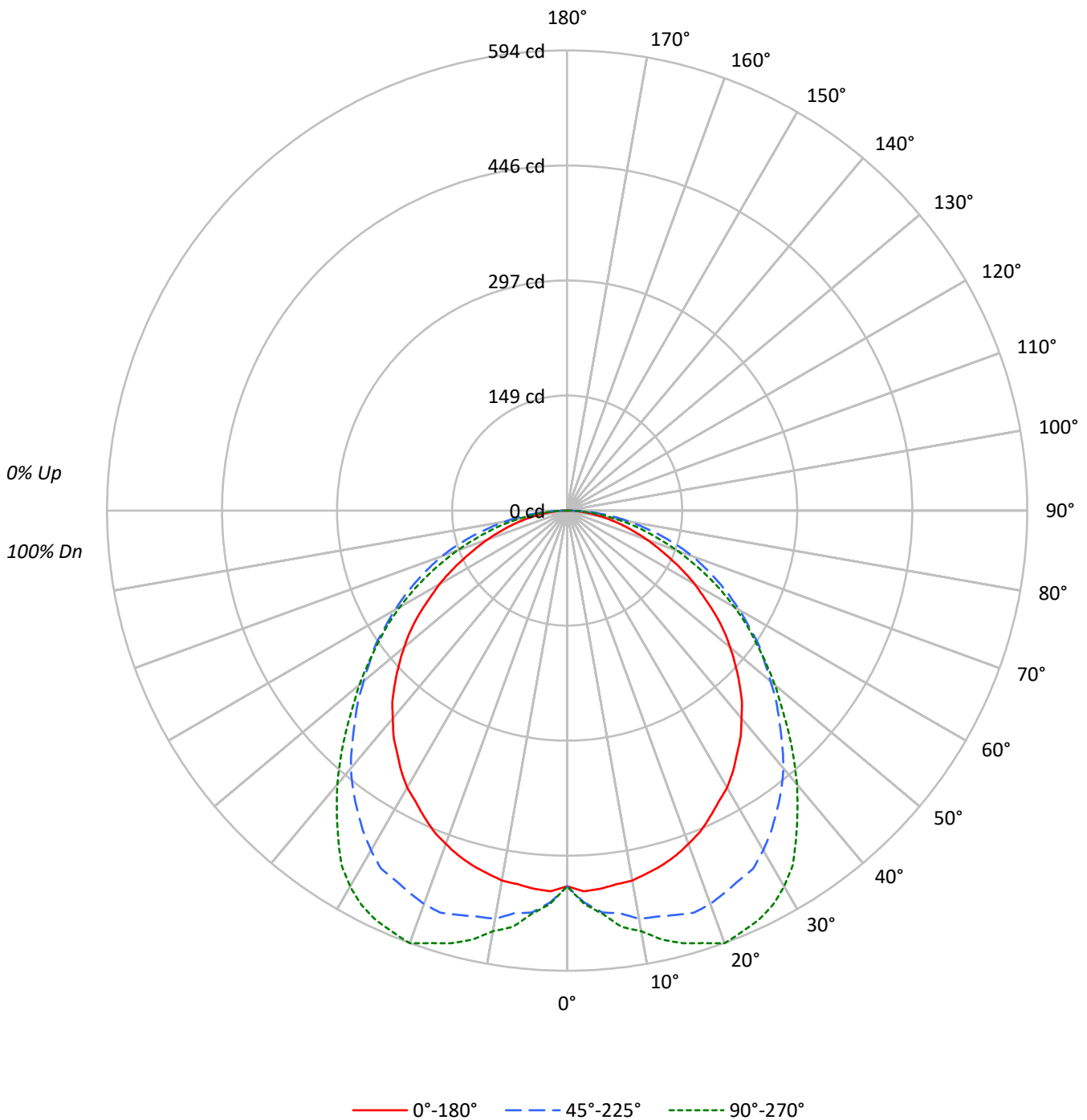
Input Watts (W): 13
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2609	2609	2609
5°	2648	2813	2823
10°	2649	2924	3012
15°	2641	3011	3221
20°	2623	3095	3404
25°	2591	3124	3465
30°	2566	3146	3481
35°	2513	3102	3386
40°	2460	3053	3242
45°	2391	2952	3075
50°	2300	2871	2931
55°	2191	2831	2796
60°	2049	2763	2686
65°	1876	2720	2538
70°	1725	2713	2373
75°	1568	2614	2202
80°	1392	2504	2061
85°	1328	2439	1778



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.3	3.1
10°-20°	151.0	9.4
20°-30°	238.6	14.8
30°-40°	287.0	17.8
40°-50°	287.1	17.8
50°-60°	252.6	15.6
60°-70°	193.1	12.0
70°-80°	118.1	7.3
80°-90°	38.1	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°	439.0	27.2
0°-40°	726.0	45.0
0°-60°	1265.7	78.4
0°-90°	1615.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1615.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	485	485	485	485	485	
5°	490	501	521	522	522	47
15°	474	501	540	567	578	134
25°	436	467	526	567	584	201
35°	382	411	472	506	515	240
45°	314	336	388	402	404	242
55°	234	264	302	300	298	208
65°	147	188	214	203	199	147
75°	75	120	126	111	106	80
85°	22	43	40	30	29	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	484.8	484.8	484.8	484.8	484.8
2.5°	491.9	490.2	506.3	508.1	508.1
5°	490.2	501.0	520.7	522.5	522.5
7.5°	486.5	508.1	524.2	536.8	542.2
10°	484.8	509.9	535.0	544.1	551.2
12.5°	479.4	506.3	536.8	556.6	567.3
15°	474.0	501.0	540.4	567.3	578.1
17.5°	466.8	497.3	544.1	572.7	585.3
20°	457.9	491.9	540.4	576.4	594.3
22.5°	448.8	479.4	533.3	574.5	588.9
25°	436.3	466.8	526.1	567.3	583.5
27.5°	423.7	454.2	520.7	560.2	574.5
30°	412.9	441.7	506.3	544.1	560.2
32.5°	398.6	427.3	490.2	527.9	542.2
35°	382.5	411.1	472.2	506.3	515.3
37.5°	368.0	393.2	454.2	481.1	488.4
40°	350.1	373.4	434.5	454.2	461.4
42.5°	334.0	357.2	411.1	432.7	432.7
45°	314.2	335.7	387.8	402.2	404.0
47.5°	294.4	319.5	366.3	375.2	375.2
50°	274.7	301.7	342.9	350.1	350.1
52.5°	254.9	281.8	321.4	324.9	323.2
55°	233.5	263.9	301.7	299.8	298.0
57.5°	210.1	244.1	278.3	274.7	274.7
60°	190.4	226.2	256.7	251.3	249.5
62.5°	168.8	206.5	235.2	228.1	224.4
65°	147.3	188.5	213.6	202.9	199.3
67.5°	127.5	172.4	192.1	177.8	174.2
70°	109.6	154.4	172.4	154.4	150.8
72.5°	91.6	136.5	149.0	132.8	127.5
75°	75.4	120.3	125.7	111.3	105.9
77.5°	59.3	102.3	102.3	88.0	86.2
80°	44.9	84.4	80.8	68.2	66.5
82.5°	32.3	62.8	61.1	50.3	46.7
85°	21.5	43.1	39.5	30.5	28.8
87.5°	10.8	21.5	18.0	12.6	12.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)