

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: P183997

Luminaire Tested: **12SR-LD2-16-C-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183997
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34460)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 12SR-LD2-16-C-UNV-L830-CD1-U
Description: METALUX SKYRIDGE EDGELIT LED 1X2 TROFFER

Light Source: EATON LED 3000K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1624.8 lumens
Efficiency: N/A
Efficacy: 125.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.39 / 1.38
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

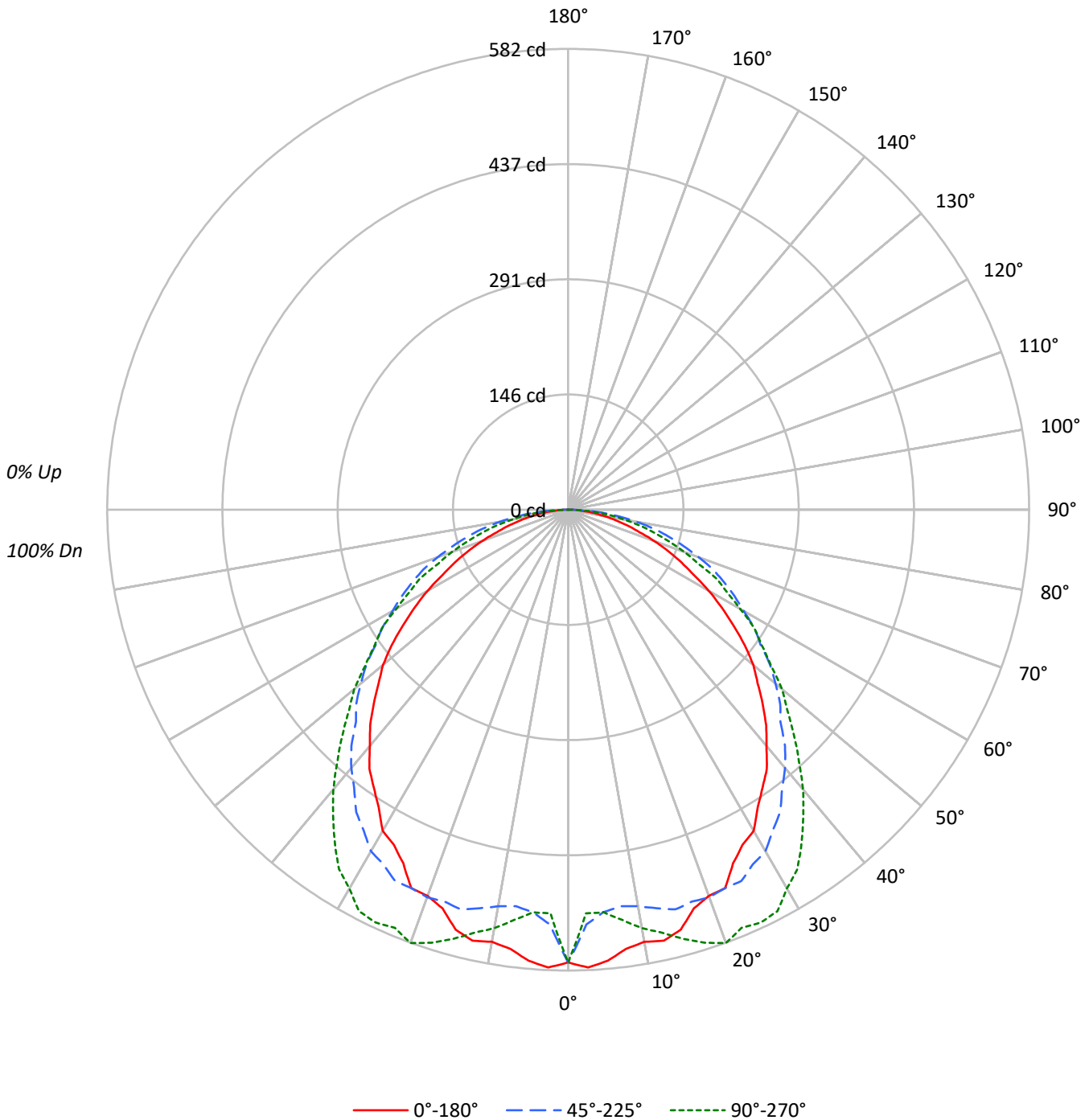
Input Watts (W): 13
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	103	99	95	106	101	97	93	97	94	90		93	90	88		89	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74		81	77	73		78	74	71	69
3	90	79	71	64	87	77	70	63	74	68	62		71	66	61		69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53		64	57	52		61	56	51	49
5	75	62	53	47	73	61	53	46	59	52	46		57	50	45		55	49	45	43
6	70	56	47	41	68	55	47	40	53	46	40		52	45	40		50	44	39	37
7	65	51	42	36	63	50	42	36	48	41	35		47	40	35		46	40	35	33
8	60	46	38	32	58	46	37	32	44	37	32		43	36	31		42	36	31	29
9	56	43	34	29	55	42	34	29	41	33	28		40	33	28		39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3077	3077	3077
5°	3089	2757	2757
10°	3028	2779	2933
15°	3058	2912	3126
20°	2972	2983	3334
25°	2926	3072	3416
30°	2910	3095	3433
35°	2811	3064	3376
40°	2735	2994	3240
45°	2643	2883	3070
50°	2555	2863	2951
55°	2386	2780	2797
60°	2209	2756	2700
65°	2010	2769	2635
70°	1821	2760	2456
75°	1605	2734	2333
80°	1413	2718	2228
85°	1297	2600	2056



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.9	3.1
10°-20°	149.4	9.2
20°-30°	237.7	14.6
30°-40°	286.5	17.6
40°-50°	287.2	17.7
50°-60°	254.0	15.6
60°-70°	196.2	12.1
70°-80°	123.0	7.6
80°-90°	40.9	2.5
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°	437.0	26.9
0°-40°	723.5	44.5
0°-60°	1264.7	77.8
0°-90°	1624.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1624.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	572	572	572	572	572	
5°	572	516	510	514	510	54
15°	549	486	523	552	561	153
25°	493	458	517	565	575	228
35°	428	398	466	502	514	268
45°	347	331	379	394	403	268
55°	254	260	296	300	298	228
65°	158	189	217	205	207	157
75°	77	123	132	116	112	83
85°	21	46	42	35	33	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	571.7	571.7	571.7	571.7	571.7
2.5°	578.7	555.9	524.3	513.8	510.3
5°	571.7	515.5	510.3	513.8	510.3
7.5°	559.4	501.5	505.0	519.0	522.6
10°	554.1	503.3	508.5	533.1	536.6
12.5°	557.6	492.7	515.5	541.8	547.1
15°	548.9	485.7	522.6	552.4	561.1
17.5°	527.8	482.2	519.0	557.6	573.4
20°	519.0	477.0	520.8	562.9	582.2
22.5°	517.3	466.4	517.3	564.6	571.7
25°	492.7	457.7	517.3	564.6	575.2
27.5°	477.0	445.4	505.0	548.9	571.7
30°	468.2	429.6	498.0	538.3	552.4
32.5°	445.4	415.6	480.5	520.8	538.3
35°	427.9	398.1	466.4	501.5	513.8
37.5°	412.1	382.3	443.6	477.0	487.5
40°	389.3	366.5	426.1	450.7	461.2
42.5°	370.0	350.7	405.1	427.9	431.4
45°	347.2	331.4	378.8	394.5	403.3
47.5°	324.4	312.1	363.0	371.7	375.3
50°	305.1	296.3	341.9	349.0	352.5
52.5°	280.6	277.1	320.9	322.7	322.7
55°	254.3	259.5	296.3	299.9	298.1
57.5°	229.7	242.0	278.8	275.3	278.8
60°	205.2	222.7	256.0	254.3	250.8
62.5°	178.9	206.9	236.7	229.7	226.2
65°	157.8	189.4	217.4	205.2	206.9
67.5°	136.8	171.8	198.1	180.6	177.1
70°	115.7	154.3	175.4	159.6	156.1
72.5°	94.7	140.3	152.6	136.8	133.3
75°	77.2	122.7	131.5	115.7	112.2
77.5°	61.4	105.2	110.5	96.4	92.9
80°	45.6	87.7	87.7	75.4	71.9
82.5°	33.3	66.6	64.9	54.4	54.4
85°	21.0	45.6	42.1	35.1	33.3
87.5°	10.5	21.0	19.3	14.0	14.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)