

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: P183999

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183999
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-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: 1708.5 lumens
Efficiency: N/A
Efficacy: 131.4 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

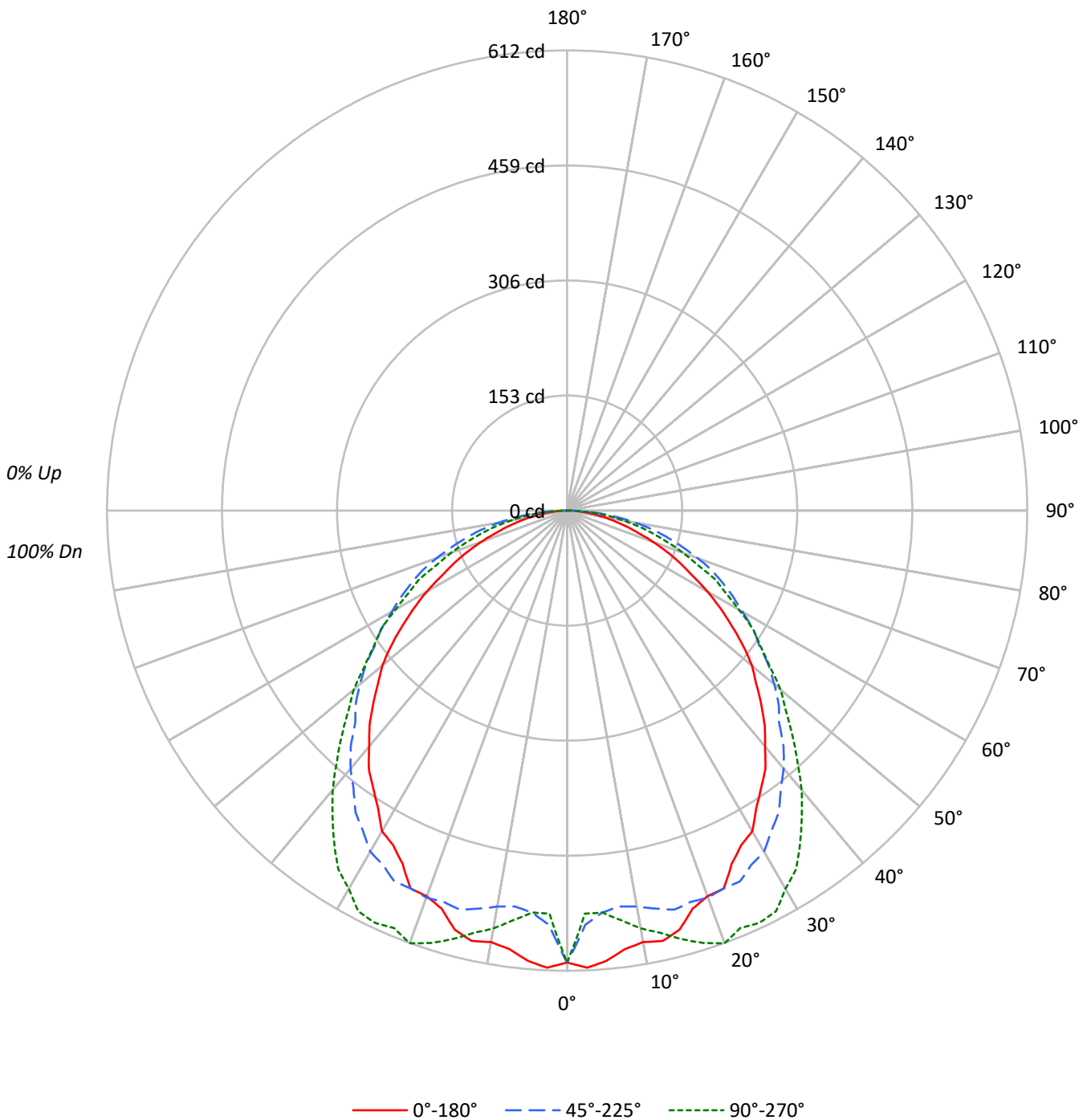
Input Watts (W): 13
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3235	3235	3235
5°	3247	2899	2899
10°	3184	2922	3083
15°	3215	3062	3288
20°	3126	3136	3506
25°	3077	3230	3592
30°	3059	3255	3609
35°	2956	3223	3550
40°	2876	3148	3407
45°	2779	3032	3228
50°	2686	3011	3103
55°	2509	2924	2942
60°	2322	2898	2838
65°	2114	2911	2771
70°	1915	2902	2582
75°	1686	2876	2454
80°	1485	2858	2343
85°	1365	2736	2161



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.5	3.1
10°-20°	157.1	9.2
20°-30°	250.0	14.6
30°-40°	301.2	17.6
40°-50°	302.0	17.7
50°-60°	267.1	15.6
60°-70°	206.3	12.1
70°-80°	129.3	7.6
80°-90°	43.0	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°	459.5	26.9
0°-40°	760.8	44.5
0°-60°	1329.9	77.8
0°-90°	1708.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1708.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	601	601	601	601	601	
5°	601	542	537	540	537	57
15°	577	511	550	581	590	161
25°	518	481	544	594	605	240
35°	450	419	490	527	540	282
45°	365	348	398	415	424	282
55°	267	273	312	315	314	240
65°	166	199	229	216	218	165
75°	81	129	138	122	118	87
85°	22	48	44	37	35	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	601.1	601.1	601.1	601.1	601.1
2.5°	608.5	584.5	551.3	540.3	536.6
5°	601.1	542.1	536.6	540.3	536.6
7.5°	588.2	527.4	531.0	545.8	549.5
10°	582.7	529.2	534.7	560.6	564.2
12.5°	586.4	518.1	542.1	569.8	575.3
15°	577.1	510.8	549.5	580.8	590.1
17.5°	555.0	507.1	545.8	586.4	603.0
20°	545.8	501.5	547.6	591.9	612.2
22.5°	544.0	490.5	544.0	593.7	601.1
25°	518.1	481.3	544.0	593.7	604.8
27.5°	501.5	468.4	531.0	577.1	601.1
30°	492.3	451.8	523.7	566.1	580.8
32.5°	468.4	437.0	505.2	547.6	566.1
35°	449.9	418.6	490.5	527.4	540.3
37.5°	433.3	402.0	466.5	501.5	512.6
40°	409.4	385.4	448.1	473.9	485.0
42.5°	389.1	368.8	425.9	449.9	453.6
45°	365.1	348.5	398.3	414.9	424.1
47.5°	341.1	328.2	381.7	390.9	394.6
50°	320.8	311.6	359.6	366.9	370.6
52.5°	295.0	291.3	337.4	339.3	339.3
55°	267.4	272.9	311.6	315.3	313.5
57.5°	241.6	254.5	293.2	289.5	293.2
60°	215.7	234.2	269.2	267.4	263.7
62.5°	188.1	217.6	248.9	241.6	237.9
65°	166.0	199.1	228.6	215.7	217.6
67.5°	143.8	180.7	208.4	189.9	186.2
70°	121.7	162.3	184.4	167.8	164.1
72.5°	99.6	147.5	160.4	143.8	140.1
75°	81.1	129.1	138.3	121.7	118.0
77.5°	64.5	110.6	116.2	101.4	97.7
80°	47.9	92.2	92.2	79.3	75.6
82.5°	35.0	70.1	68.2	57.2	57.2
85°	22.1	47.9	44.3	36.9	35.0
87.5°	11.1	22.1	20.3	14.8	14.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)