

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: P183897

Luminaire Tested: **14SR-LD2-15-C-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183897
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34451)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14SR-LD2-15-C-UNV-L830-CD1-U
Description: METALUX SKYRIDGE EDGELIT LED 1X4 TROFFER

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

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1414.3 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.42 / 1.41
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

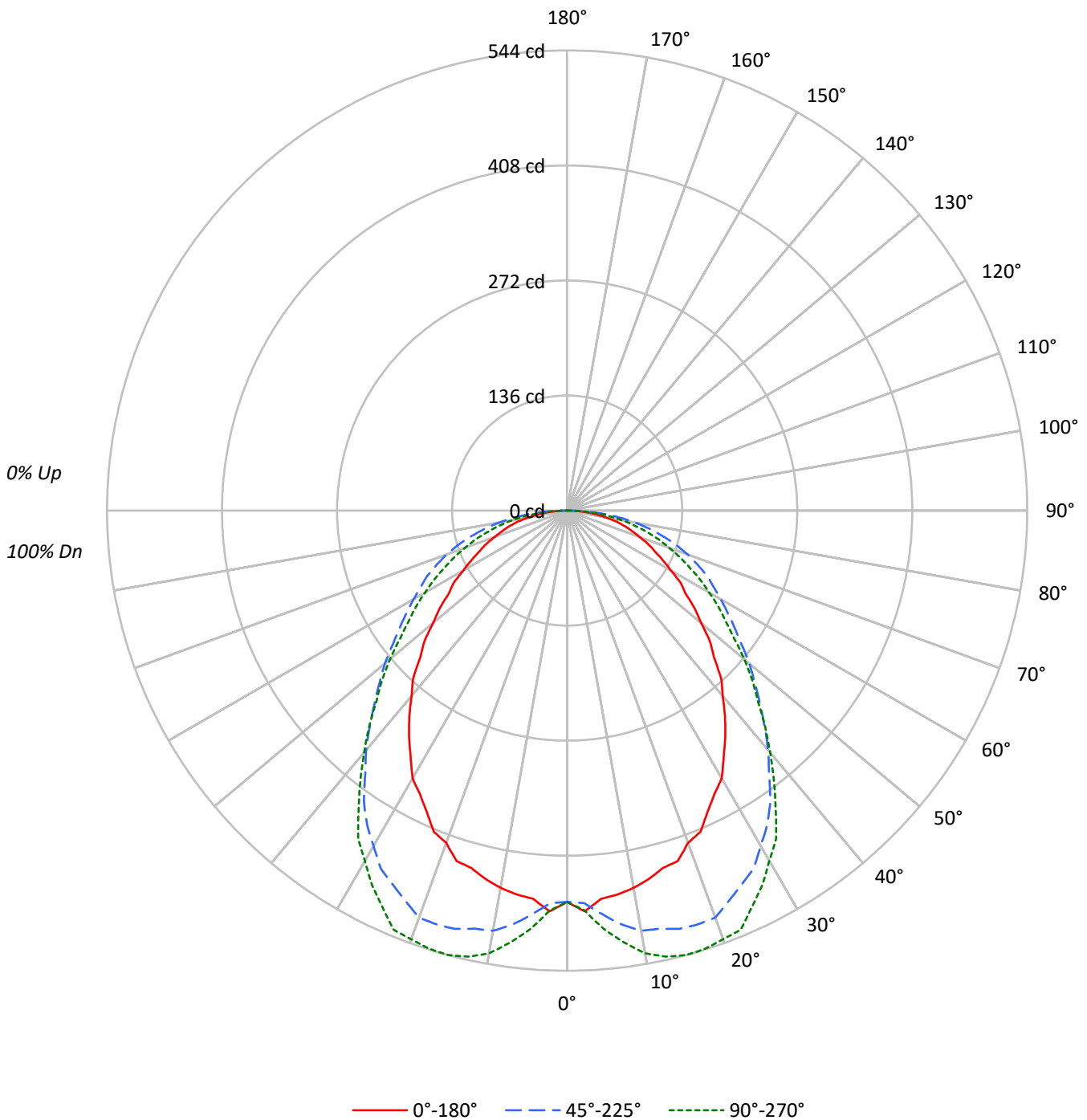
Input Watts (W): 13.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	91	93	90	88	89	87	85	83
2	99	90	83	77	96	88	82	77	85	79	75	81	77	73	78	75	71	69
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58
4	83	70	62	55	80	69	61	55	67	59	54	64	58	53	62	57	52	50
5	76	63	54	48	74	62	54	47	60	52	47	58	51	46	56	50	46	44
6	70	57	48	42	68	56	48	41	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30
9	57	44	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1245	1245	1245
5°	1244	1294	1341
10°	1238	1378	1452
15°	1219	1426	1516
20°	1197	1466	1544
25°	1166	1448	1535
30°	1136	1422	1486
35°	1070	1376	1411
40°	1005	1298	1312
45°	934	1225	1214
50°	865	1177	1145
55°	801	1133	1074
60°	762	1128	1044
65°	728	1161	1019
70°	718	1190	1007
75°	726	1220	1009
80°	707	1263	1021
85°	689	1288	1019



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.6	3.3
10°-20°	143.1	10.1
20°-30°	220.4	15.6
30°-40°	252.3	17.8
40°-50°	238.5	16.9
50°-60°	202.6	14.3
60°-70°	161.1	11.4
70°-80°	109.2	7.7
80°-90°	40.5	2.9
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°	410.2	29.0
0°-40°	662.5	46.8
0°-60°	1103.5	78.0
0°-90°	1414.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1414.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	463	463	463	463	463	
5°	461	470	479	496	496	44
15°	437	484	512	542	544	124
25°	393	459	488	514	517	181
35°	326	392	419	431	430	204
45°	245	304	322	326	319	191
55°	171	222	242	236	229	155
65°	114	164	182	167	160	114
75°	70	112	117	101	97	73
85°	22	48	42	34	33	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	462.6	462.6	462.6	462.6	462.6
2.5°	474.2	467.4	464.5	474.2	473.2
5°	460.6	470.3	479.1	495.5	496.5
7.5°	457.7	480.0	493.6	514.0	514.9
10°	452.9	482.0	504.3	528.5	531.4
12.5°	446.1	483.9	506.2	536.3	540.1
15°	437.4	483.9	512.0	542.1	544.0
17.5°	434.4	483.9	513.0	539.2	543.1
20°	418.0	479.1	512.0	535.3	539.2
22.5°	411.2	470.3	499.4	527.5	536.3
25°	392.7	458.7	487.8	514.0	516.9
27.5°	377.2	446.1	477.1	499.4	499.4
30°	365.6	430.6	457.7	479.1	478.1
32.5°	344.3	409.2	440.3	456.7	459.7
35°	325.8	391.8	418.9	430.6	429.6
37.5°	306.4	369.5	391.8	405.4	401.5
40°	286.1	347.2	369.5	378.2	373.4
42.5°	269.6	323.9	345.2	351.0	346.2
45°	245.3	303.5	322.0	325.8	319.0
47.5°	228.9	281.2	300.6	300.6	296.7
50°	206.6	259.9	281.2	275.4	273.5
52.5°	190.1	241.5	259.9	255.0	249.2
55°	170.7	222.1	241.5	235.6	228.9
57.5°	159.0	206.6	225.0	218.2	212.4
60°	141.6	191.0	209.5	200.7	193.9
62.5°	128.0	177.5	194.9	184.3	177.5
65°	114.4	163.9	182.3	166.8	160.0
67.5°	103.8	151.3	166.8	150.3	144.5
70°	91.2	136.7	151.3	133.8	128.0
72.5°	80.5	125.1	134.8	117.3	113.5
75°	69.8	112.5	117.3	100.9	97.0
77.5°	59.2	99.9	99.9	85.3	81.5
80°	45.6	85.3	81.5	68.9	65.9
82.5°	34.9	67.9	62.1	51.4	49.5
85°	22.3	47.5	41.7	33.9	33.0
87.5°	10.7	25.2	20.4	16.5	15.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)