

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: P184014

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P184014
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-LD2-12-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: 1210.0 lumens
Efficiency: N/A
Efficacy: 122.2 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

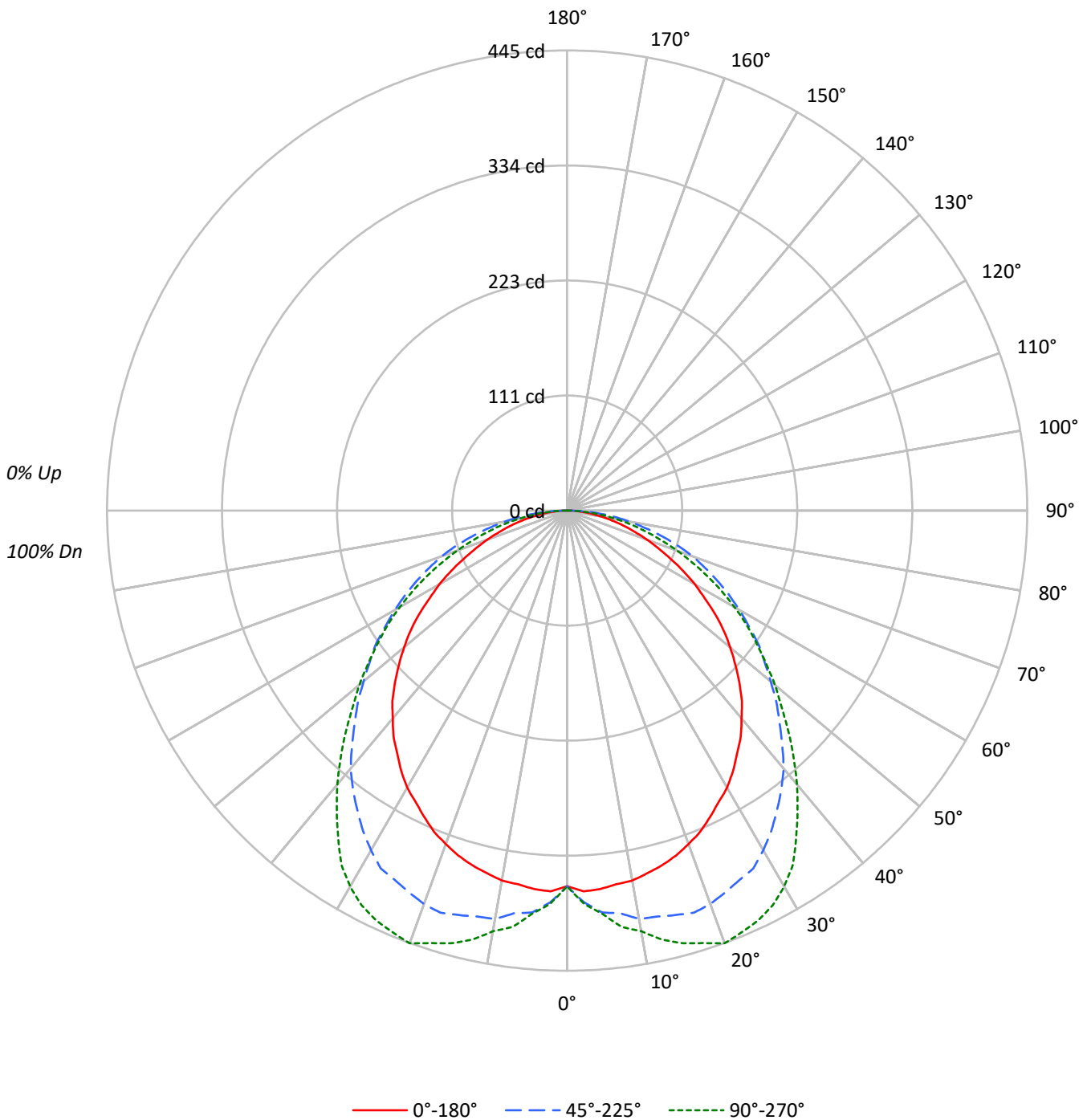
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1955	1955	1955
5°	1984	2108	2115
10°	1985	2191	2257
15°	1979	2256	2414
20°	1965	2319	2550
25°	1941	2341	2596
30°	1923	2357	2608
35°	1883	2325	2537
40°	1843	2288	2429
45°	1792	2211	2304
50°	1723	2151	2196
55°	1641	2121	2095
60°	1535	2070	2013
65°	1405	2039	1901
70°	1292	2033	1778
75°	1175	1957	1651
80°	1041	1875	1543
85°	994	1828	1334



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.9	3.1
10°-20°	113.2	9.4
20°-30°	178.8	14.8
30°-40°	215.0	17.8
40°-50°	215.1	17.8
50°-60°	189.3	15.6
60°-70°	144.6	12.0
70°-80°	88.5	7.3
80°-90°	28.6	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°	328.9	27.2
0°-40°	543.9	45.0
0°-60°	948.3	78.4
0°-90°	1210.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1210.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	363	363	363	363	363	
5°	367	375	390	392	392	35
15°	355	375	405	425	433	100
25°	327	350	394	425	437	151
35°	287	308	354	379	386	180
45°	236	252	290	301	303	181
55°	175	198	226	225	223	156
65°	110	141	160	152	149	110
75°	56	90	94	83	79	60
85°	16	32	30	23	22	18
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	363.2	363.2	363.2	363.2	363.2
2.5°	368.6	367.3	379.3	380.7	380.7
5°	367.3	375.4	390.1	391.5	391.5
7.5°	364.5	380.7	392.8	402.2	406.2
10°	363.2	382.0	400.9	407.6	413.0
12.5°	359.2	379.3	402.2	417.1	425.1
15°	355.1	375.4	404.9	425.1	433.2
17.5°	349.8	372.6	407.6	429.1	438.5
20°	343.1	368.6	404.9	431.8	445.3
22.5°	336.3	359.2	399.6	430.4	441.3
25°	326.9	349.8	394.2	425.1	437.2
27.5°	317.5	340.3	390.1	419.7	430.4
30°	309.4	330.9	379.3	407.6	419.7
32.5°	298.6	320.2	367.3	395.5	406.2
35°	286.6	308.0	353.8	379.3	386.1
37.5°	275.8	294.6	340.3	360.5	365.9
40°	262.3	279.8	325.6	340.3	345.7
42.5°	250.2	267.7	308.0	324.2	324.2
45°	235.5	251.6	290.5	301.4	302.7
47.5°	220.6	239.4	274.4	281.1	281.1
50°	205.8	226.0	256.9	262.3	262.3
52.5°	191.0	211.2	240.8	243.5	242.1
55°	174.9	197.7	226.0	224.6	223.3
57.5°	157.4	182.9	208.5	205.8	205.8
60°	142.6	169.5	192.3	188.3	187.0
62.5°	126.4	154.7	176.2	170.9	168.1
65°	110.3	141.2	160.1	152.0	149.3
67.5°	95.5	129.2	143.9	133.2	130.5
70°	82.1	115.7	129.2	115.7	113.0
72.5°	68.6	102.2	111.7	99.5	95.5
75°	56.5	90.1	94.1	83.4	79.4
77.5°	44.4	76.6	76.6	65.9	64.6
80°	33.6	63.3	60.5	51.1	49.8
82.5°	24.2	47.1	45.8	37.7	35.0
85°	16.1	32.3	29.6	22.9	21.6
87.5°	8.1	16.1	13.5	9.4	9.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)