

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: P183994

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183994
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-LD2-12-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: 1280.1 lumens
Efficiency: N/A
Efficacy: 129.3 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

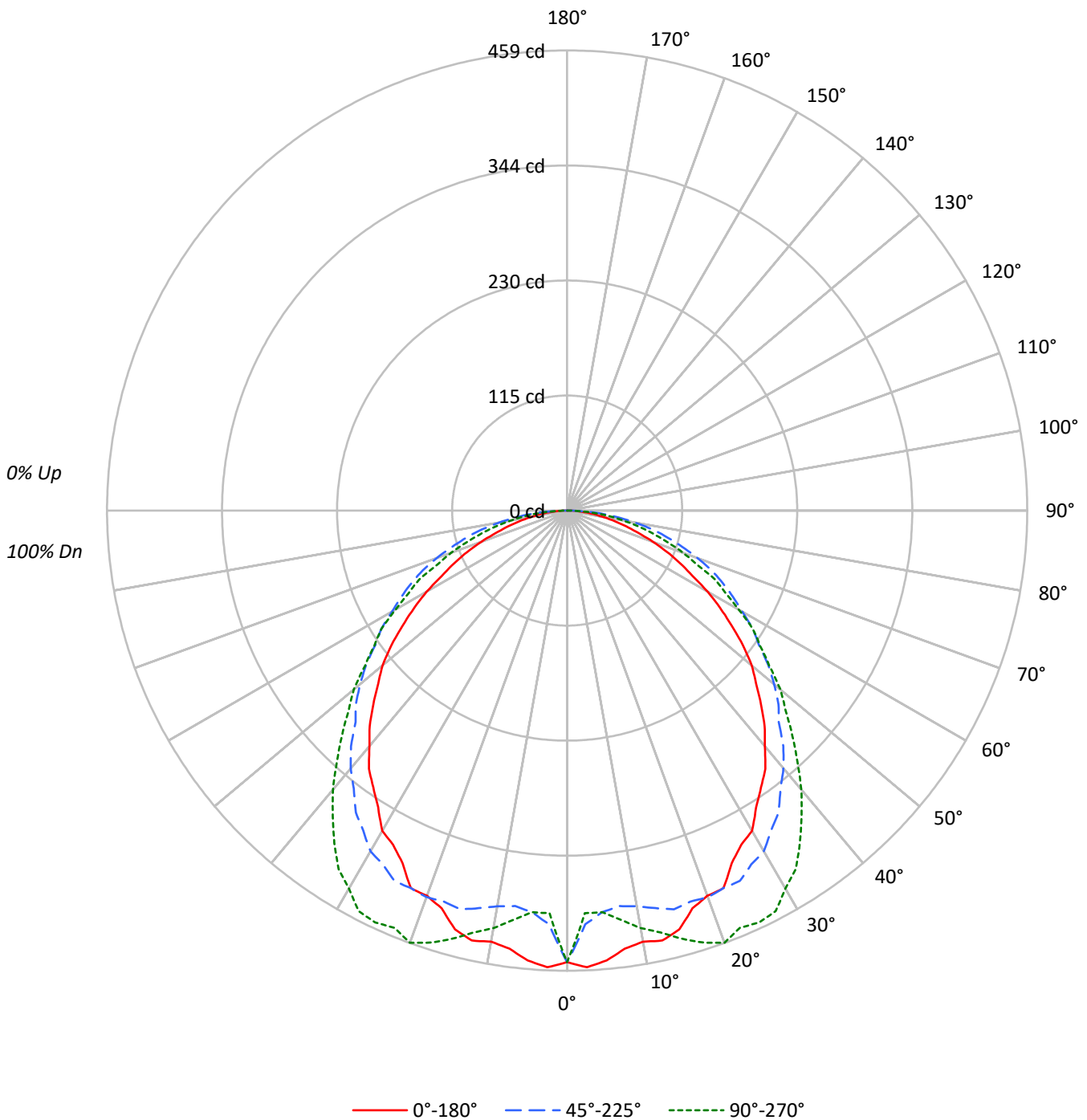
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2424	2424	2424
5°	2433	2172	2172
10°	2386	2190	2311
15°	2409	2294	2463
20°	2342	2350	2627
25°	2305	2420	2691
30°	2293	2439	2705
35°	2215	2415	2660
40°	2155	2359	2553
45°	2082	2271	2419
50°	2013	2256	2325
55°	1879	2191	2204
60°	1739	2171	2127
65°	1583	2181	2076
70°	1435	2175	1936
75°	1264	2154	1838
80°	1113	2142	1754
85°	1025	2050	1618



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.3	3.1
10°-20°	117.7	9.2
20°-30°	187.3	14.6
30°-40°	225.7	17.6
40°-50°	226.3	17.7
50°-60°	200.1	15.6
60°-70°	154.6	12.1
70°-80°	96.9	7.6
80°-90°	32.2	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°	344.3	26.9
0°-40°	570.0	44.5
0°-60°	996.4	77.8
0°-90°	1280.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1280.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	450	450	450	450	450	
5°	450	406	402	405	402	42
15°	432	383	412	435	442	121
25°	388	361	408	445	453	180
35°	337	314	368	395	405	211
45°	274	261	298	311	318	211
55°	200	204	234	236	235	180
65°	124	149	171	162	163	123
75°	61	97	104	91	88	65
85°	17	36	33	28	26	19
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	450.4	450.4	450.4	450.4	450.4
2.5°	455.9	438.0	413.1	404.8	402.0
5°	450.4	406.2	402.0	404.8	402.0
7.5°	440.7	395.1	397.9	408.9	411.7
10°	436.6	396.5	400.7	420.0	422.8
12.5°	439.3	388.2	406.2	426.9	431.0
15°	432.4	382.7	411.7	435.2	442.1
17.5°	415.9	379.9	408.9	439.3	451.8
20°	408.9	375.8	410.3	443.5	458.7
22.5°	407.6	367.5	407.6	444.9	450.4
25°	388.2	360.6	407.6	444.9	453.2
27.5°	375.8	350.9	397.9	432.4	450.4
30°	368.9	338.5	392.4	424.1	435.2
32.5°	350.9	327.4	378.5	410.3	424.1
35°	337.1	313.6	367.5	395.1	404.8
37.5°	324.7	301.2	349.5	375.8	384.1
40°	306.7	288.7	335.7	355.1	363.4
42.5°	291.5	276.3	319.1	337.1	339.9
45°	273.5	261.1	298.4	310.9	317.8
47.5°	255.6	245.9	286.0	292.9	295.7
50°	240.4	233.5	269.4	274.9	277.7
52.5°	221.1	218.3	252.8	254.2	254.2
55°	200.3	204.5	233.5	236.2	234.9
57.5°	181.0	190.7	219.7	216.9	219.7
60°	161.6	175.5	201.7	200.3	197.6
62.5°	140.9	163.0	186.5	181.0	178.2
65°	124.3	149.2	171.3	161.6	163.0
67.5°	107.8	135.4	156.1	142.3	139.5
70°	91.2	121.6	138.2	125.7	123.0
72.5°	74.6	110.5	120.2	107.8	105.0
75°	60.8	96.7	103.6	91.2	88.4
77.5°	48.4	82.9	87.0	76.0	73.2
80°	35.9	69.1	69.1	59.4	56.6
82.5°	26.2	52.5	51.1	42.8	42.8
85°	16.6	35.9	33.2	27.6	26.2
87.5°	8.3	16.6	15.2	11.1	11.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)