

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: P183998

Luminaire Tested: **12SR-LD2-16-C-UNV-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183998
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-L835-CD1-U
Description: METALUX SKYRIDGE EDGELIT LED 1X2 TROFFER

Light Source: EATON LED 3500K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1675.0 lumens
Efficiency: N/A
Efficacy: 128.8 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

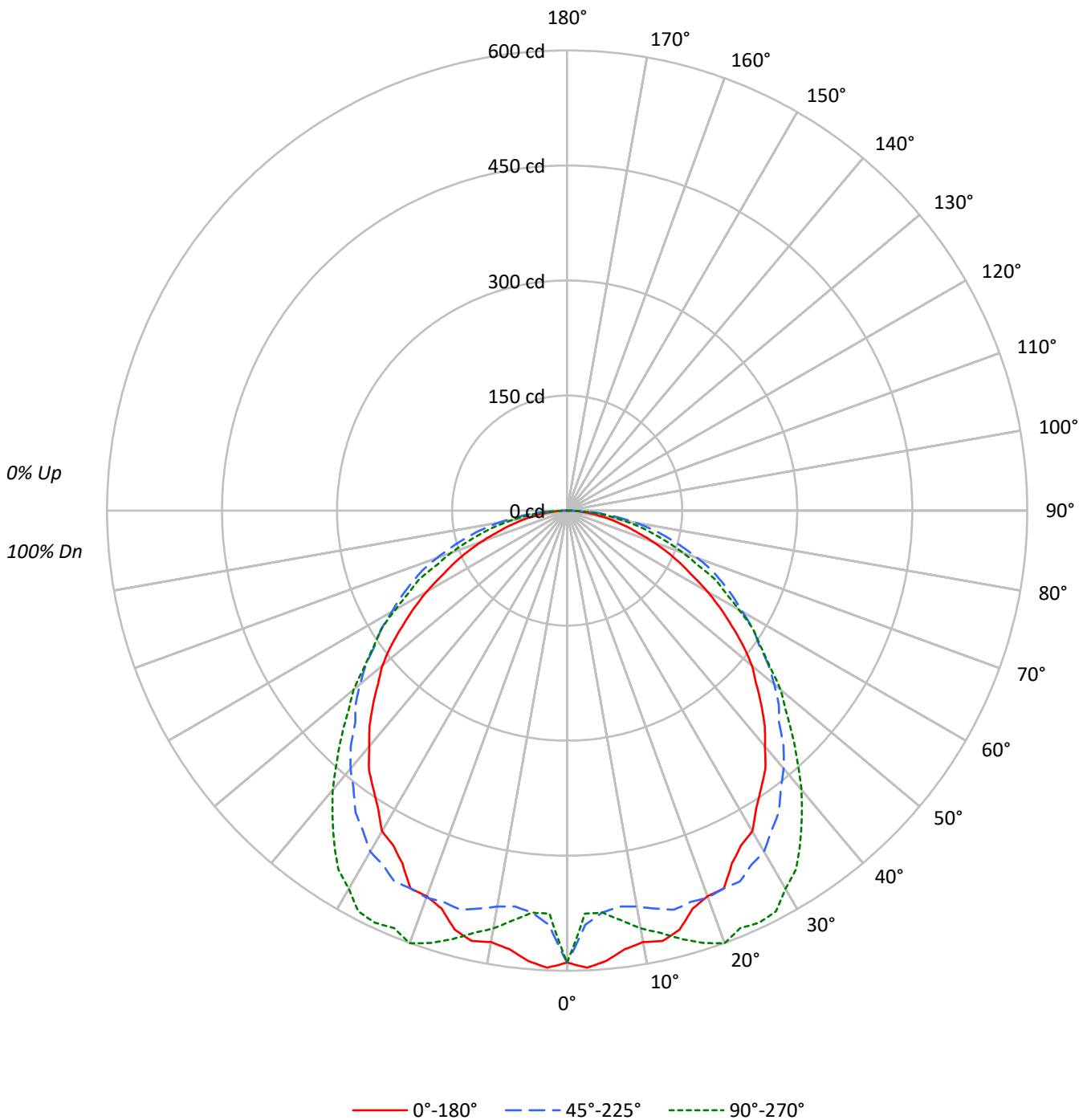
Input Watts (W): 13
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3172	3172	3172
5°	3184	2842	2842
10°	3122	2865	3023
15°	3153	3002	3223
20°	3065	3075	3438
25°	3017	3167	3521
30°	3000	3191	3539
35°	2898	3160	3480
40°	2819	3086	3340
45°	2724	2972	3165
50°	2634	2951	3043
55°	2459	2867	2883
60°	2277	2841	2782
65°	2072	2855	2716
70°	1877	2845	2532
75°	1653	2820	2406
80°	1457	2802	2297
85°	1340	2680	2118



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.4	3.1
10°-20°	154.0	9.2
20°-30°	245.1	14.6
30°-40°	295.3	17.6
40°-50°	296.1	17.7
50°-60°	261.8	15.6
60°-70°	202.2	12.1
70°-80°	126.8	7.6
80°-90°	42.1	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°	450.5	26.9
0°-40°	745.9	44.5
0°-60°	1303.8	77.8
0°-90°	1675.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1675.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	589	589	589	589	589	
5°	589	532	526	530	526	56
15°	566	501	539	569	578	158
25°	508	472	533	582	593	235
35°	441	410	481	517	530	277
45°	358	342	390	407	416	276
55°	262	268	306	309	307	235
65°	163	195	224	212	213	162
75°	80	126	136	119	116	85
85°	22	47	43	36	34	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	589.3	589.3	589.3	589.3	589.3
2.5°	596.6	573.1	540.5	529.7	526.1
5°	589.3	531.5	526.1	529.7	526.1
7.5°	576.7	517.0	520.6	535.1	538.7
10°	571.3	518.8	524.3	549.6	553.2
12.5°	574.9	508.0	531.5	558.6	564.0
15°	565.8	500.8	538.7	569.4	578.5
17.5°	544.1	497.1	535.1	574.9	591.1
20°	535.1	491.7	536.9	580.3	600.2
22.5°	533.3	480.9	533.3	582.1	589.3
25°	508.0	471.8	533.3	582.1	592.9
27.5°	491.7	459.2	520.6	565.8	589.3
30°	482.7	442.9	513.4	555.0	569.4
32.5°	459.2	428.4	495.3	536.9	555.0
35°	441.1	410.4	480.9	517.0	529.7
37.5°	424.8	394.1	457.4	491.7	502.6
40°	401.3	377.8	439.3	464.6	475.4
42.5°	381.4	361.6	417.6	441.1	444.7
45°	357.9	341.7	390.5	406.7	415.8
47.5°	334.4	321.8	374.2	383.2	386.9
50°	314.6	305.5	352.5	359.7	363.4
52.5°	289.2	285.6	330.8	332.6	332.6
55°	262.1	267.5	305.5	309.1	307.3
57.5°	236.8	249.5	287.4	283.8	287.4
60°	211.5	229.6	263.9	262.1	258.5
62.5°	184.4	213.3	244.0	236.8	233.2
65°	162.7	195.2	224.2	211.5	213.3
67.5°	141.0	177.2	204.3	186.2	182.6
70°	119.3	159.1	180.8	164.5	160.9
72.5°	97.6	144.6	157.3	141.0	137.4
75°	79.5	126.5	135.6	119.3	115.7
77.5°	63.3	108.5	113.9	99.4	95.8
80°	47.0	90.4	90.4	77.7	74.1
82.5°	34.3	68.7	66.9	56.0	56.0
85°	21.7	47.0	43.4	36.2	34.3
87.5°	10.8	21.7	19.9	14.5	14.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)