

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: P184000

Luminaire Tested: **12SR-LD2-16-C-UNV-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P184000
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-L850-CD1-U
Description: METALUX SKYRIDGE EDGELIT LED 1X2 TROFFER

Light Source: EATON LED 5000K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1859.3 lumens
Efficiency: N/A
Efficacy: 143.0 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

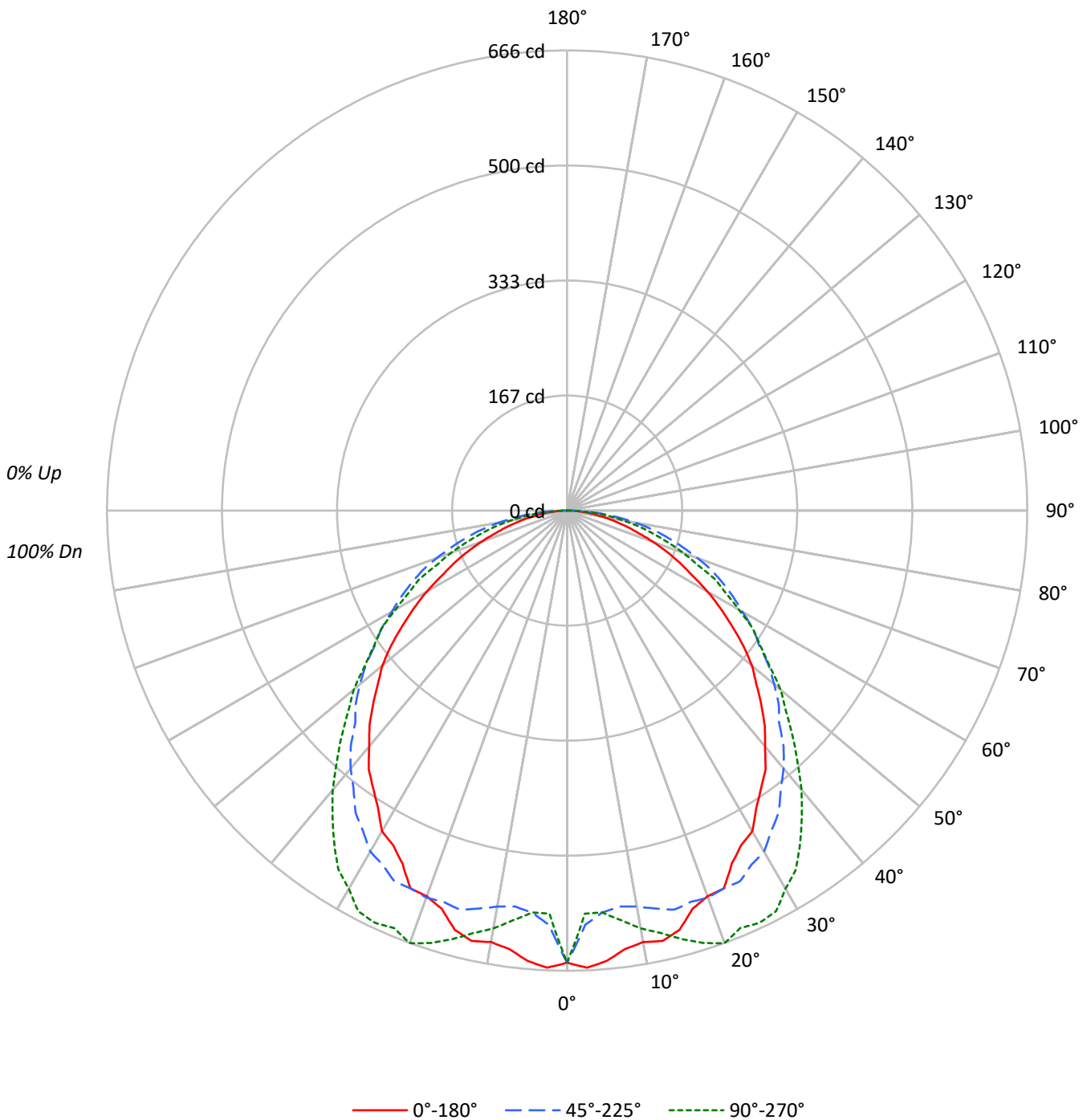
Input Watts (W): 13
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3521	3521	3521
5°	3534	3155	3155
10°	3465	3180	3355
15°	3500	3332	3578
20°	3402	3414	3816
25°	3349	3515	3909
30°	3330	3542	3928
35°	3217	3507	3863
40°	3130	3426	3707
45°	3024	3299	3513
50°	2924	3276	3377
55°	2730	3182	3201
60°	2527	3154	3088
65°	2300	3168	3016
70°	2083	3158	2810
75°	1836	3130	2670
80°	1618	3109	2551
85°	1488	2976	2353



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.1	3.1
10°-20°	171.0	9.2
20°-30°	272.0	14.6
30°-40°	327.8	17.6
40°-50°	328.6	17.7
50°-60°	290.6	15.6
60°-70°	224.5	12.1
70°-80°	140.8	7.6
80°-90°	46.8	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°	500.1	26.9
0°-40°	827.9	44.5
0°-60°	1447.2	77.8
0°-90°	1859.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1859.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	654	654	654	654	654	
5°	654	590	584	588	584	62
15°	628	556	598	632	642	175
25°	564	524	592	646	658	261
35°	490	456	534	574	588	307
45°	397	379	433	452	462	307
55°	291	297	339	343	341	261
65°	181	217	249	235	237	179
75°	88	140	150	132	128	95
85°	24	52	48	40	38	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	654.2	654.2	654.2	654.2	654.2
2.5°	662.2	636.1	600.0	587.9	583.9
5°	654.2	589.9	583.9	587.9	583.9
7.5°	640.1	573.9	577.9	594.0	598.0
10°	634.1	575.9	581.9	610.0	614.0
12.5°	638.1	563.9	589.9	620.0	626.1
15°	628.1	555.8	598.0	632.1	642.1
17.5°	604.0	551.8	594.0	638.1	656.2
20°	594.0	545.8	596.0	644.1	666.2
22.5°	592.0	533.8	592.0	646.1	654.2
25°	563.9	523.7	592.0	646.1	658.2
27.5°	545.8	509.7	577.9	628.1	654.2
30°	535.8	491.6	569.9	616.0	632.1
32.5°	509.7	475.6	549.8	596.0	616.0
35°	489.6	455.5	533.8	573.9	587.9
37.5°	471.6	437.4	507.7	545.8	557.8
40°	445.5	419.4	487.6	515.7	527.7
42.5°	423.4	401.3	463.5	489.6	493.6
45°	397.3	379.3	433.4	451.5	461.5
47.5°	371.2	357.2	415.4	425.4	429.4
50°	349.2	339.1	391.3	399.3	403.3
52.5°	321.1	317.0	367.2	369.2	369.2
55°	291.0	297.0	339.1	343.1	341.1
57.5°	262.9	276.9	319.1	315.0	319.1
60°	234.8	254.8	293.0	291.0	286.9
62.5°	204.7	236.8	270.9	262.9	258.9
65°	180.6	216.7	248.8	234.8	236.8
67.5°	156.5	196.6	226.7	206.7	202.7
70°	132.4	176.6	200.7	182.6	178.6
72.5°	108.4	160.5	174.6	156.5	152.5
75°	88.3	140.5	150.5	132.4	128.4
77.5°	70.2	120.4	126.4	110.4	106.4
80°	52.2	100.3	100.3	86.3	82.3
82.5°	38.1	76.3	74.2	62.2	62.2
85°	24.1	52.2	48.2	40.1	38.1
87.5°	12.0	24.1	22.1	16.1	16.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)