

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: P184018

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P184018
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-LD2-16-S-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: 1583.4 lumens
Efficiency: N/A
Efficacy: 121.8 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

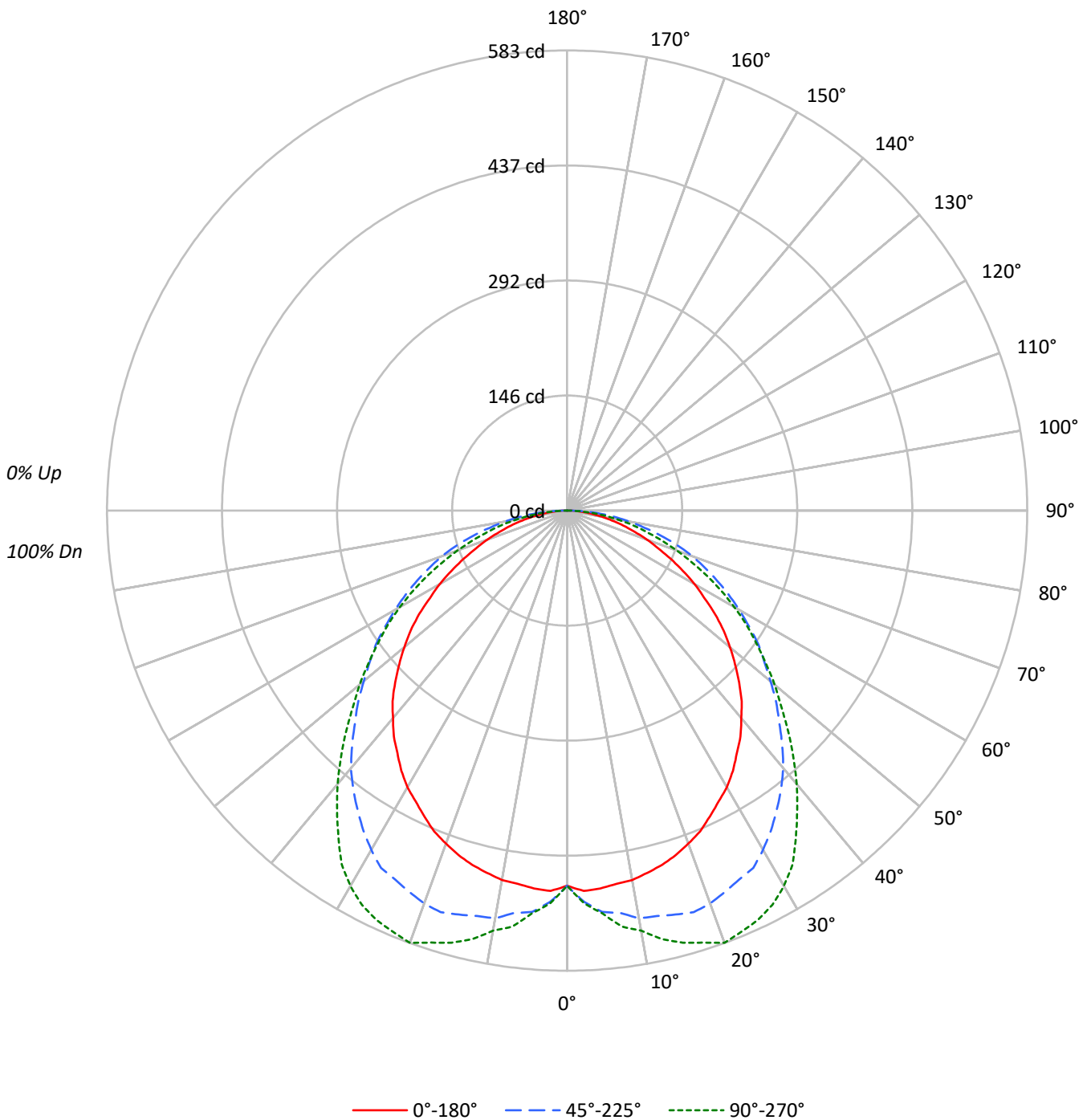
Input Watts (W): 13
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P184018

CATALOG NUMBER: 12SR-LD2-16-S-UNV-L835-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P184018

CATALOG NUMBER: 12SR-LD2-16-S-UNV-L835-CD1-U

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°	2558	2558	2558
5°	2596	2758	2767
10°	2598	2866	2953
15°	2589	2952	3158
20°	2571	3034	3337
25°	2540	3063	3397
30°	2516	3084	3413
35°	2464	3041	3319
40°	2411	2993	3178
45°	2345	2894	3015
50°	2255	2815	2874
55°	2148	2776	2742
60°	2009	2709	2634
65°	1839	2667	2488
70°	1690	2659	2326
75°	1537	2562	2158
80°	1364	2455	2021
85°	1303	2390	1741



TEST NUMBER: P184018

CATALOG NUMBER: 12SR-LD2-16-S-UNV-L835-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.3	3.1
10°-20°	148.1	9.4
20°-30°	234.0	14.8
30°-40°	281.4	17.8
40°-50°	281.5	17.8
50°-60°	247.7	15.6
60°-70°	189.3	12.0
70°-80°	115.8	7.3
80°-90°	37.4	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°	430.4	27.2
0°-40°	711.7	45.0
0°-60°	1240.9	78.4
0°-90°	1583.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1583.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	475	475	475	475	475	
5°	481	491	510	512	512	46
15°	465	491	530	556	567	131
25°	428	458	516	556	572	197
35°	375	403	463	496	505	235
45°	308	329	380	394	396	237
55°	229	259	296	294	292	204
65°	144	185	209	199	195	144
75°	74	118	123	109	104	78
85°	21	42	39	30	28	23
90°	0	0	0	0	0	



TEST NUMBER: P184018

CATALOG NUMBER: 12SR-LD2-16-S-UNV-L835-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	475.3	475.3	475.3	475.3	475.3
2.5°	482.3	480.6	496.3	498.2	498.2
5°	480.6	491.1	510.5	512.2	512.2
7.5°	477.0	498.2	514.0	526.3	531.6
10°	475.3	499.9	524.5	533.4	540.4
12.5°	470.0	496.3	526.3	545.7	556.2
15°	464.7	491.1	529.8	556.2	566.8
17.5°	457.6	487.6	533.4	561.5	573.8
20°	448.9	482.3	529.8	565.1	582.7
22.5°	440.0	470.0	522.8	563.2	577.4
25°	427.7	457.6	515.8	556.2	572.1
27.5°	415.4	445.3	510.5	549.2	563.2
30°	404.8	433.0	496.3	533.4	549.2
32.5°	390.8	419.0	480.6	517.5	531.6
35°	375.0	403.1	462.9	496.3	505.2
37.5°	360.8	385.5	445.3	471.7	478.8
40°	343.2	366.1	426.0	445.3	452.4
42.5°	327.4	350.2	403.1	424.3	424.3
45°	308.1	329.2	380.2	394.3	396.1
47.5°	288.6	313.3	359.1	367.8	367.8
50°	269.3	295.8	336.2	343.2	343.2
52.5°	250.0	276.3	315.1	318.6	316.8
55°	228.9	258.7	295.8	293.9	292.2
57.5°	206.0	239.4	272.9	269.3	269.3
60°	186.6	221.7	251.7	246.4	244.7
62.5°	165.4	202.4	230.6	223.6	220.0
65°	144.4	184.8	209.4	198.9	195.4
67.5°	125.0	169.0	188.4	174.3	170.7
70°	107.4	151.4	169.0	151.4	147.8
72.5°	89.8	133.8	146.1	130.2	125.0
75°	73.9	117.9	123.2	109.1	103.8
77.5°	58.1	100.3	100.3	86.2	84.5
80°	44.0	82.8	79.2	66.9	65.2
82.5°	31.7	61.6	59.9	49.3	45.8
85°	21.1	42.3	38.7	29.9	28.2
87.5°	10.6	21.1	17.6	12.3	12.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)