

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: P184017

Luminaire Tested: **12SR-LD2-16-S-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P184017
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-L830-CD1-U
Description: METALUX SKYRIDGE EDGELIT LED 1X2 TROFFER

Light Source: EATON LED 3000K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

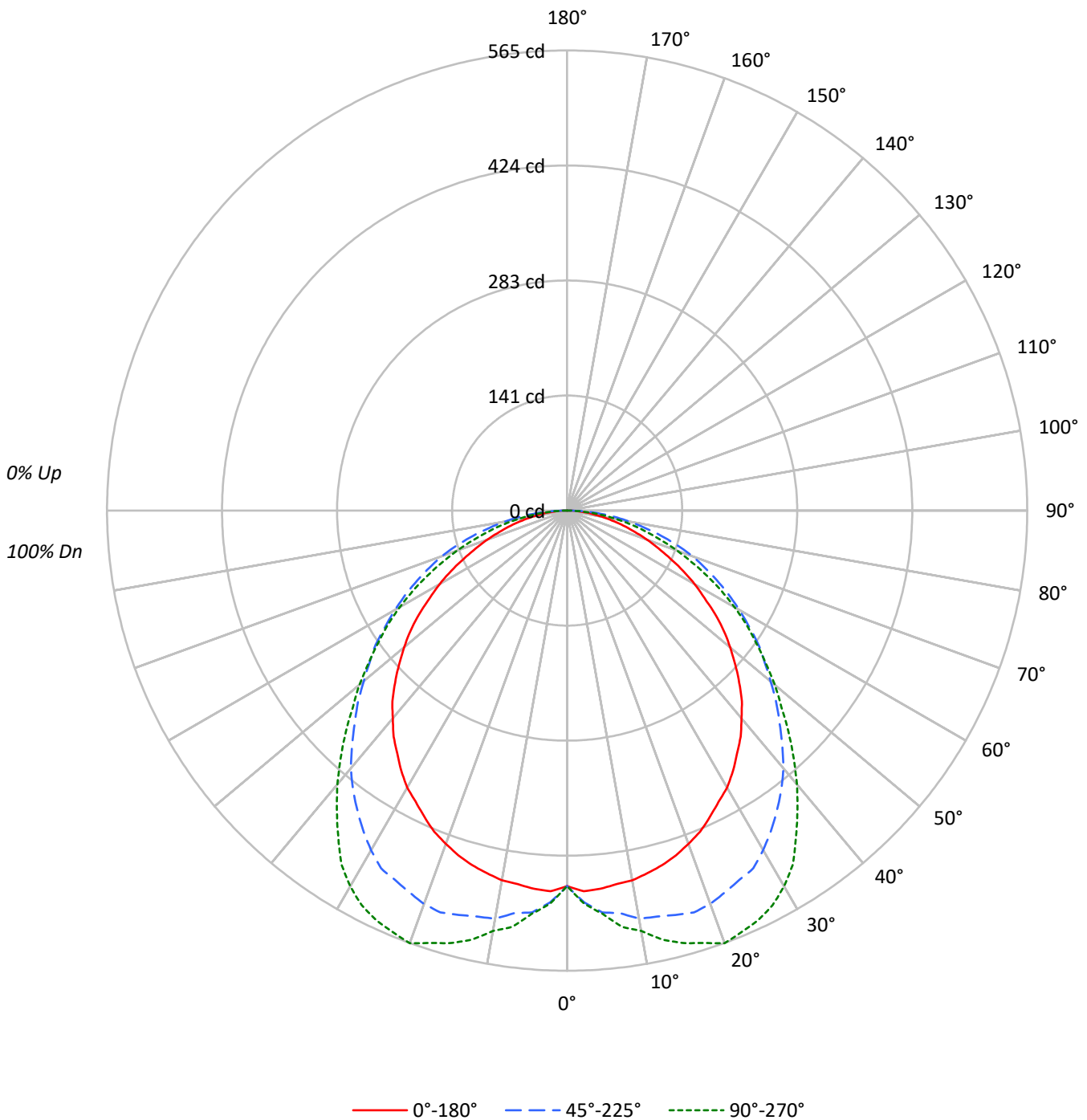
Lumens per Lamp: N/A
Luminaire Lumens: 1535.8 lumens
Efficiency: N/A
Efficacy: 118.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.54 / 1.5
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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



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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°	2481	2481	2481
5°	2518	2675	2685
10°	2519	2781	2865
15°	2511	2863	3063
20°	2494	2943	3237
25°	2464	2971	3295
30°	2440	2992	3310
35°	2390	2951	3219
40°	2339	2903	3083
45°	2274	2807	2924
50°	2187	2730	2787
55°	2083	2692	2659
60°	1948	2627	2554
65°	1783	2586	2413
70°	1640	2579	2257
75°	1491	2485	2094
80°	1323	2380	1959
85°	1260	2316	1692



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.9	3.1
10°-20°	143.6	9.4
20°-30°	226.9	14.8
30°-40°	272.9	17.8
40°-50°	273.1	17.8
50°-60°	240.2	15.6
60°-70°	183.6	12.0
70°-80°	112.3	7.3
80°-90°	36.2	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°	417.5	27.2
0°-40°	690.4	45.0
0°-60°	1203.7	78.4
0°-90°	1535.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1535.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	461	461	461	461	461	
5°	466	476	495	497	497	44
15°	451	476	514	540	550	127
25°	415	444	500	540	555	191
35°	364	391	449	481	490	228
45°	299	319	369	382	384	230
55°	222	251	287	285	283	198
65°	140	179	203	193	190	140
75°	72	114	120	106	101	76
85°	20	41	38	29	27	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	461.0	461.0	461.0	461.0	461.0
2.5°	467.8	466.1	481.4	483.2	483.2
5°	466.1	476.4	495.2	496.9	496.9
7.5°	462.7	483.2	498.5	510.5	515.6
10°	461.0	484.9	508.8	517.4	524.2
12.5°	455.9	481.4	510.5	529.3	539.5
15°	450.7	476.4	513.9	539.5	549.8
17.5°	443.9	473.0	517.4	544.7	556.6
20°	435.4	467.8	513.9	548.1	565.2
22.5°	426.8	455.9	507.1	546.3	560.1
25°	414.9	443.9	500.3	539.5	554.9
27.5°	402.9	432.0	495.2	532.7	546.3
30°	392.7	420.0	481.4	517.4	532.7
32.5°	379.0	406.4	466.1	502.0	515.6
35°	363.7	391.0	449.1	481.4	490.0
37.5°	350.0	373.9	432.0	457.5	464.5
40°	332.9	355.1	413.2	432.0	438.8
42.5°	317.6	339.7	391.0	411.5	411.5
45°	298.8	319.3	368.8	382.5	384.2
47.5°	280.0	303.9	348.3	356.8	356.8
50°	261.2	286.9	326.1	332.9	332.9
52.5°	242.5	268.0	305.7	309.0	307.3
55°	222.0	250.9	286.9	285.1	283.4
57.5°	199.8	232.2	264.7	261.2	261.2
60°	181.0	215.1	244.1	239.0	237.3
62.5°	160.5	196.3	223.7	216.9	213.4
65°	140.0	179.2	203.1	193.0	189.5
67.5°	121.3	163.9	182.7	169.1	165.6
70°	104.2	146.9	163.9	146.9	143.4
72.5°	87.1	129.8	141.7	126.3	121.3
75°	71.7	114.4	119.5	105.9	100.7
77.5°	56.4	97.3	97.3	83.6	82.0
80°	42.7	80.3	76.8	64.9	63.2
82.5°	30.7	59.7	58.1	47.8	44.4
85°	20.4	41.0	37.5	29.0	27.4
87.5°	10.3	20.4	17.1	11.9	11.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)