

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: P184023

Luminaire Tested: **12SR-LD2-20-S-UNV-L835-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P184023  
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-LD2-20-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: 1967.2 lumens  
Efficiency: N/A  
Efficacy: 120.7 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

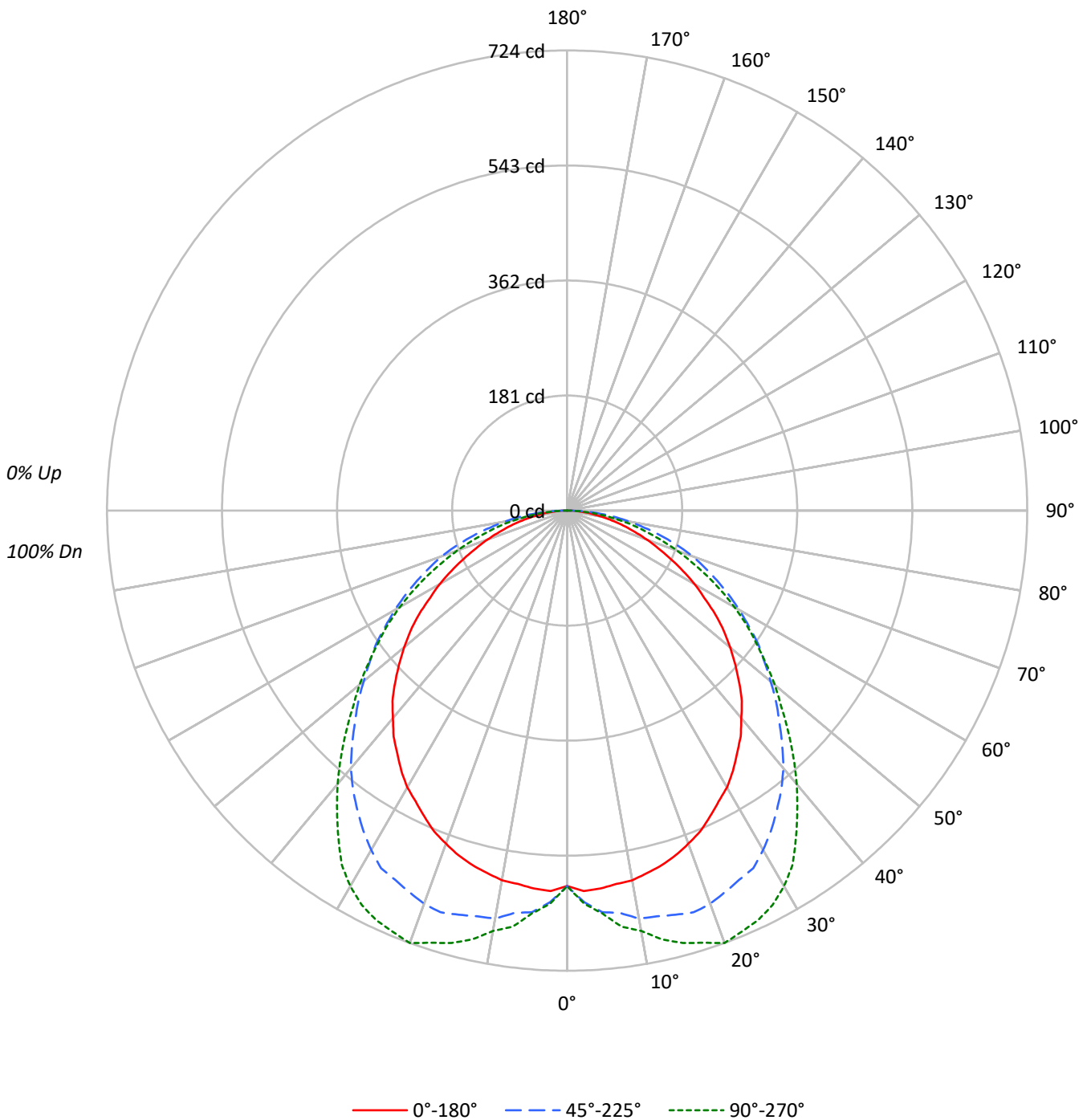
Input Watts (W): 16.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3178	3178	3178
5°	3225	3426	3438
10°	3227	3562	3669
15°	3217	3668	3924
20°	3194	3770	4146
25°	3156	3805	4221
30°	3125	3832	4240
35°	3061	3779	4123
40°	2996	3718	3948
45°	2914	3595	3745
50°	2802	3497	3570
55°	2669	3448	3406
60°	2496	3366	3272
65°	2285	3314	3091
70°	2099	3305	2891
75°	1909	3184	2682
80°	1692	3050	2510
85°	1618	2970	2161



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	60.1	3.1
10°-20°	184.0	9.4
20°-30°	290.7	14.8
30°-40°	349.6	17.8
40°-50°	349.8	17.8
50°-60°	307.7	15.6
60°-70°	235.1	12.0
70°-80°	143.9	7.3
80°-90°	46.4	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°	534.7	27.2
0°-40°	884.3	45.0
0°-60°	1541.7	78.4
0°-90°	1967.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1967.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	590	590	590	590	590	
5°	597	610	634	636	636	57
15°	577	610	658	691	704	163
25°	531	569	641	691	711	245
35°	466	501	575	617	628	292
45°	383	409	472	490	492	295
55°	284	321	368	365	363	253
65°	179	230	260	247	243	179
75°	92	146	153	136	129	97
85°	26	52	48	37	35	29
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	590.5	590.5	590.5	590.5	590.5
2.5°	599.2	597.0	616.6	618.9	618.9
5°	597.0	610.2	634.2	636.4	636.4
7.5°	592.6	618.9	638.5	653.8	660.4
10°	590.5	621.1	651.7	662.7	671.4
12.5°	583.9	616.6	653.8	678.0	691.0
15°	577.3	610.2	658.3	691.0	704.2
17.5°	568.6	605.8	662.7	697.6	712.9
20°	557.7	599.2	658.3	702.0	723.9
22.5°	546.7	583.9	649.5	699.7	717.3
25°	531.4	568.6	640.8	691.0	710.8
27.5°	516.1	553.3	634.2	682.3	699.7
30°	502.9	538.0	616.6	662.7	682.3
32.5°	485.5	520.5	597.0	643.0	660.4
35°	465.9	500.8	575.2	616.6	627.6
37.5°	448.3	478.9	553.3	586.0	594.9
40°	426.4	454.9	529.2	553.3	562.0
42.5°	406.8	435.1	500.8	527.1	527.1
45°	382.8	408.9	472.3	489.9	492.1
47.5°	358.6	389.2	446.1	457.0	457.0
50°	334.6	367.5	417.7	426.4	426.4
52.5°	310.5	343.3	391.5	395.8	393.6
55°	284.4	321.4	367.5	365.2	363.0
57.5°	255.9	297.4	339.0	334.6	334.6
60°	231.9	275.5	312.7	306.1	304.0
62.5°	205.5	251.5	286.5	277.8	273.3
65°	179.4	229.6	260.2	247.2	242.7
67.5°	155.3	210.0	234.0	216.6	212.1
70°	133.4	188.1	210.0	188.1	183.7
72.5°	111.6	166.2	181.5	161.8	155.3
75°	91.8	146.5	153.1	135.6	129.0
77.5°	72.2	124.6	124.6	107.1	105.0
80°	54.6	102.8	98.4	83.1	81.0
82.5°	39.3	76.5	74.4	61.2	56.9
85°	26.2	52.5	48.1	37.2	35.0
87.5°	13.2	26.2	21.9	15.3	15.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)