

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: P184025

Luminaire Tested: **12SR-LD2-20-S-UNV-L850-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P184025  
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-L850-CD1-U  
Description: METALUX SKYRIDGE EDGELIT LED 1X2 TROFFER  
  
Light Source: EATON LED 5000K  
Ballast/Driver: OSRAM ELECTRONIC DRIVER

**Summary**

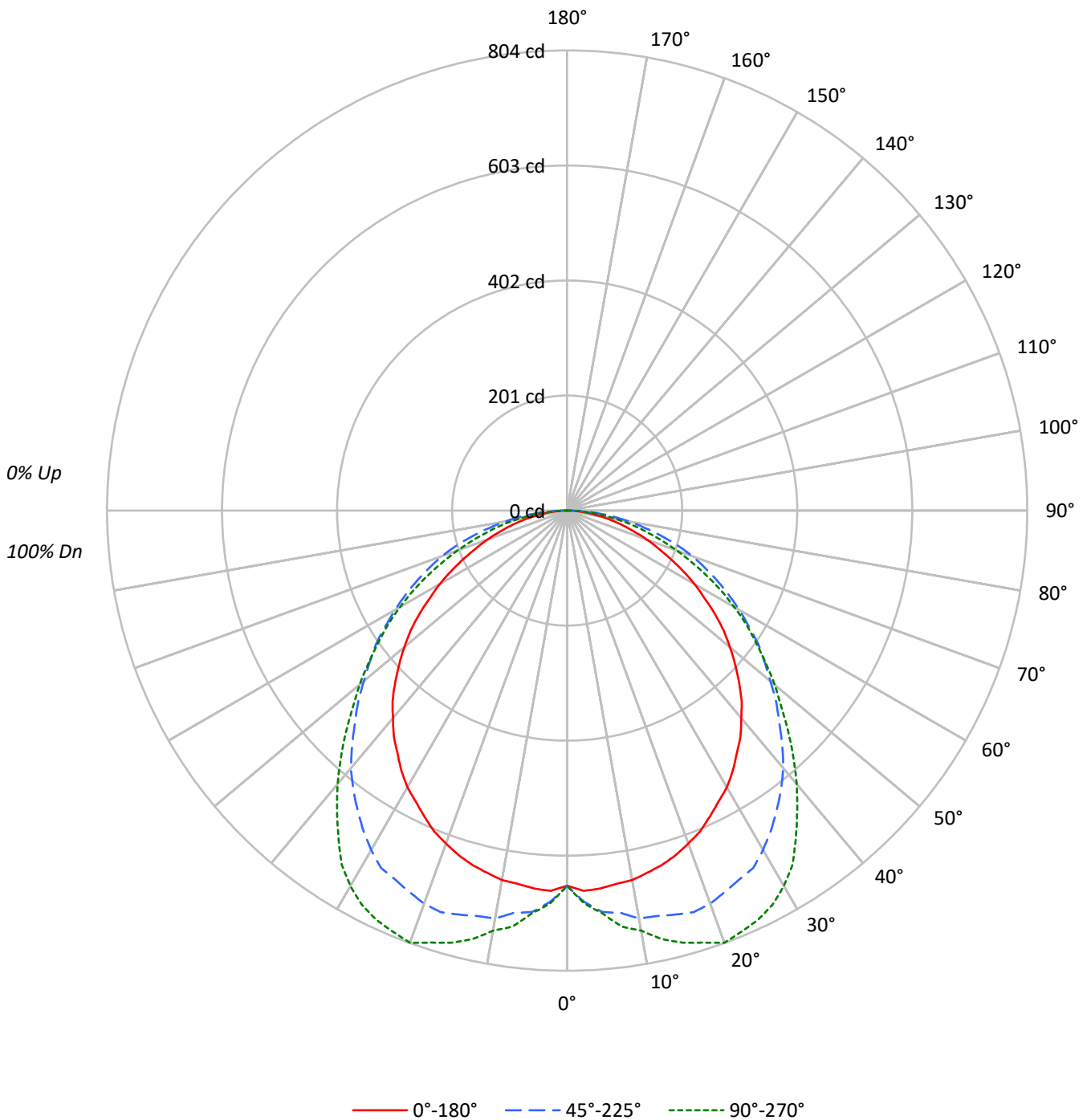
Lumens per Lamp: N/A  
Luminaire Lumens: 2183.6 lumens  
Efficiency: N/A  
Efficacy: 134.0 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.54 / 1.5  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 16.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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°	3527	3527	3527
5°	3580	3803	3816
10°	3582	3953	4073
15°	3570	4071	4355
20°	3545	4185	4602
25°	3502	4224	4685
30°	3470	4254	4706
35°	3397	4194	4577
40°	3325	4128	4383
45°	3234	3991	4157
50°	3110	3882	3963
55°	2961	3827	3781
60°	2771	3736	3632
65°	2535	3678	3431
70°	2330	3668	3209
75°	2119	3533	2978
80°	1881	3384	2786
85°	1797	3298	2402



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	66.7	3.1
10°-20°	204.2	9.4
20°-30°	322.6	14.8
30°-40°	388.0	17.8
40°-50°	388.2	17.8
50°-60°	341.5	15.6
60°-70°	261.0	12.0
70°-80°	159.7	7.3
80°-90°	51.5	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°	593.5	27.2
0°-40°	981.5	45.0
0°-60°	1711.3	78.4
0°-90°	2183.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2183.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	655	655	655	655	655	
5°	663	677	704	706	706	63
15°	641	677	731	767	782	181
25°	590	631	711	767	789	272
35°	517	556	638	684	697	324
45°	425	454	524	544	546	327
55°	316	357	408	405	403	281
65°	199	255	289	274	269	198
75°	102	163	170	150	143	108
85°	29	58	53	41	39	32
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	655.4	655.4	655.4	655.4	655.4
2.5°	665.1	662.7	684.5	687.0	687.0
5°	662.7	677.3	704.0	706.4	706.4
7.5°	657.8	687.0	708.8	725.8	733.1
10°	655.4	689.4	723.4	735.6	745.3
12.5°	648.1	684.5	725.8	752.6	767.0
15°	640.8	677.3	730.7	767.0	781.6
17.5°	631.1	672.4	735.6	774.3	791.3
20°	619.0	665.1	730.7	779.2	803.5
22.5°	606.8	648.1	721.0	776.7	796.2
25°	589.8	631.1	711.3	767.0	788.9
27.5°	572.9	614.1	704.0	757.3	776.7
30°	558.3	597.1	684.5	735.6	757.3
32.5°	538.9	577.8	662.7	713.7	733.1
35°	517.1	555.9	638.4	684.5	696.7
37.5°	497.6	531.6	614.1	650.5	660.3
40°	473.3	504.9	587.5	614.1	623.8
42.5°	451.5	483.0	555.9	585.1	585.1
45°	424.9	453.9	524.3	543.8	546.2
47.5°	398.0	432.0	495.2	507.3	507.3
50°	371.4	407.9	463.6	473.3	473.3
52.5°	344.7	381.1	434.6	439.3	436.9
55°	315.6	356.8	407.9	405.3	403.0
57.5°	284.0	330.1	376.3	371.4	371.4
60°	257.4	305.8	347.1	339.8	337.4
62.5°	228.2	279.1	318.0	308.3	303.4
65°	199.1	254.8	288.8	274.4	269.4
67.5°	172.4	233.1	259.7	240.4	235.5
70°	148.1	208.8	233.1	208.8	203.9
72.5°	123.8	184.5	201.5	179.6	172.4
75°	101.9	162.6	169.9	150.5	143.2
77.5°	80.2	138.3	138.3	118.9	116.5
80°	60.7	114.1	109.2	92.2	89.9
82.5°	43.7	84.9	82.6	68.0	63.2
85°	29.1	58.3	53.4	41.3	38.9
87.5°	14.6	29.1	24.3	17.0	17.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)