

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: P184002

Luminaire Tested: **12SR-LD2-20-C-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P184002
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-LD2-20-C-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: 2018.6 lumens
Efficiency: N/A
Efficacy: 123.8 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

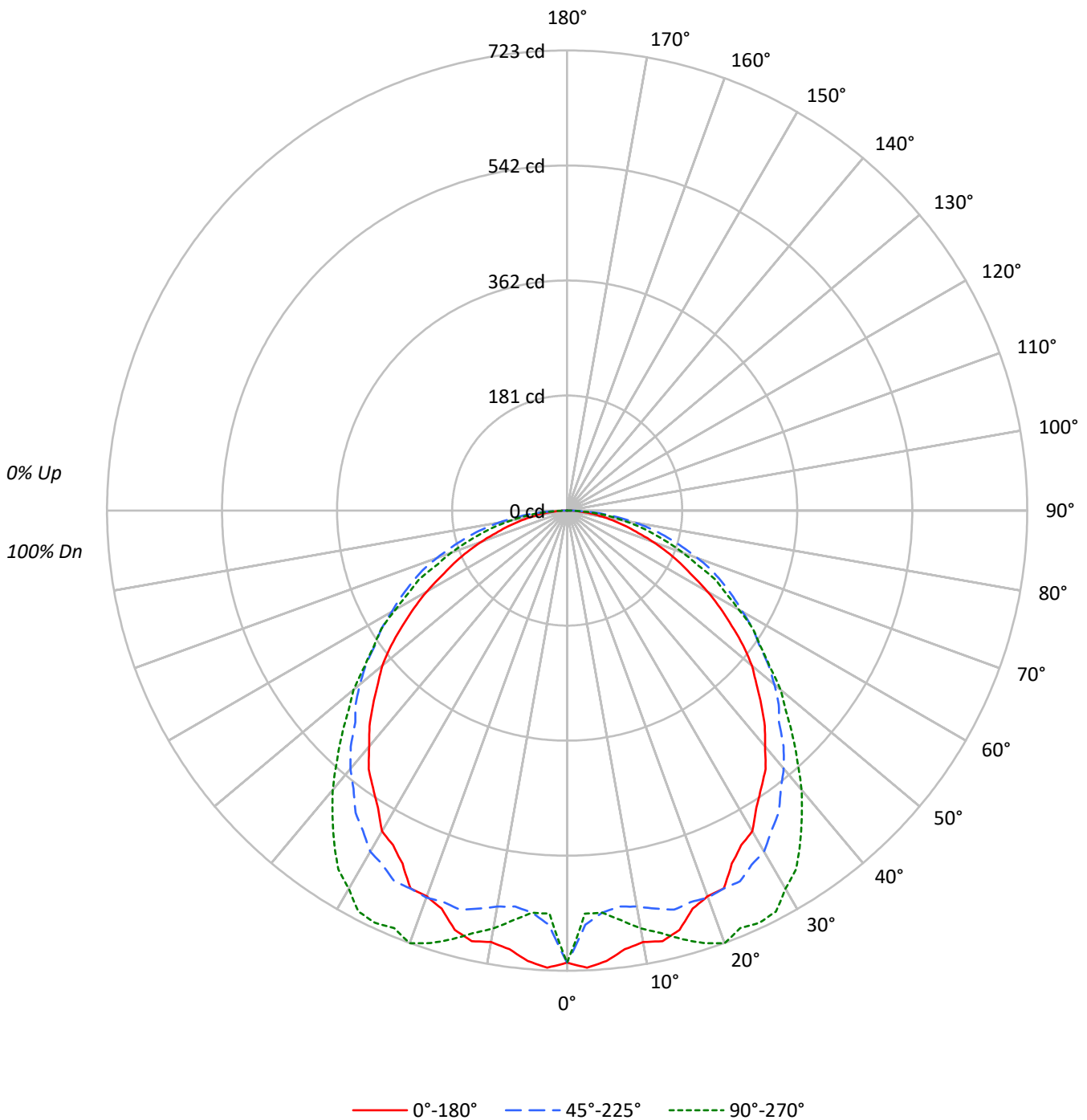
Input Watts (W): 16.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	108	103	99	95	106	101	97	93	97	94	90	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69					69			
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49					49			
5	75	62	53	47	73	61	53	46	59	52	46	57	50	45	55	49	45	43					43			
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37					37			
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33					33			
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29					29			
9	56	43	34	29	55	42	34	29	41	33	28	40	33	28	39	33	28	26					26			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3822	3822	3822
5°	3837	3425	3425
10°	3762	3453	3643
15°	3799	3617	3884
20°	3694	3706	4143
25°	3635	3817	4244
30°	3615	3845	4264
35°	3493	3807	4194
40°	3398	3719	4026
45°	3283	3582	3814
50°	3174	3557	3666
55°	2964	3455	3476
60°	2744	3424	3353
65°	2497	3440	3274
70°	2263	3429	3051
75°	1994	3398	2899
80°	1754	3375	2768
85°	1612	3230	2556



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.0	3.1
10°-20°	185.6	9.2
20°-30°	295.4	14.6
30°-40°	355.9	17.6
40°-50°	356.8	17.7
50°-60°	315.5	15.6
60°-70°	243.7	12.1
70°-80°	152.8	7.6
80°-90°	50.8	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°	543.0	26.9
0°-40°	898.9	44.5
0°-60°	1571.2	77.8
0°-90°	2018.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2018.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	710	710	710	710	710	
5°	710	640	634	638	634	67
15°	682	604	649	686	697	190
25°	612	569	643	702	715	284
35°	532	494	580	623	638	333
45°	431	412	471	490	501	333
55°	316	322	368	372	370	283
65°	196	235	270	255	257	195
75°	96	152	163	144	139	103
85°	26	57	52	44	41	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	710.2	710.2	710.2	710.2	710.2
2.5°	718.9	690.6	651.4	638.3	634.0
5°	710.2	640.5	634.0	638.3	634.0
7.5°	695.0	623.1	627.4	644.9	649.2
10°	688.4	625.2	631.8	662.3	666.6
12.5°	692.8	612.2	640.5	673.2	679.7
15°	681.9	603.5	649.2	686.2	697.1
17.5°	655.7	599.1	644.9	692.8	712.4
20°	644.9	592.6	647.0	699.3	723.3
22.5°	642.7	579.5	642.7	701.5	710.2
25°	612.2	568.6	642.7	701.5	714.6
27.5°	592.6	553.4	627.4	681.9	710.2
30°	581.7	533.7	618.7	668.8	686.2
32.5°	553.4	516.3	596.9	647.0	668.8
35°	531.6	494.5	579.5	623.1	638.3
37.5°	512.0	474.9	551.2	592.6	605.6
40°	483.6	455.3	529.4	559.9	573.0
42.5°	459.7	435.7	503.2	531.6	535.9
45°	431.4	411.7	470.6	490.2	501.1
47.5°	403.0	387.8	451.0	461.9	466.2
50°	379.1	368.2	424.8	433.5	437.9
52.5°	348.6	344.2	398.7	400.9	400.9
55°	315.9	322.4	368.2	372.5	370.4
57.5°	285.4	300.6	346.4	342.0	346.4
60°	254.9	276.7	318.1	315.9	311.5
62.5°	222.2	257.1	294.1	285.4	281.0
65°	196.1	235.3	270.1	254.9	257.1
67.5°	169.9	213.5	246.2	224.4	220.0
70°	143.8	191.7	217.9	198.2	193.9
72.5°	117.6	174.3	189.5	169.9	165.6
75°	95.9	152.5	163.4	143.8	139.4
77.5°	76.2	130.7	137.2	119.8	115.5
80°	56.6	108.9	108.9	93.7	89.3
82.5°	41.4	82.8	80.6	67.5	67.5
85°	26.1	56.6	52.3	43.6	41.4
87.5°	13.1	26.1	24.0	17.4	17.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)