

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: P184003

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P184003
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-L835-CD1-U
Description: METALUX SKYRIDGE EDGELIT LED 1X2 TROFFER

Light Source: EATON LED 3500K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

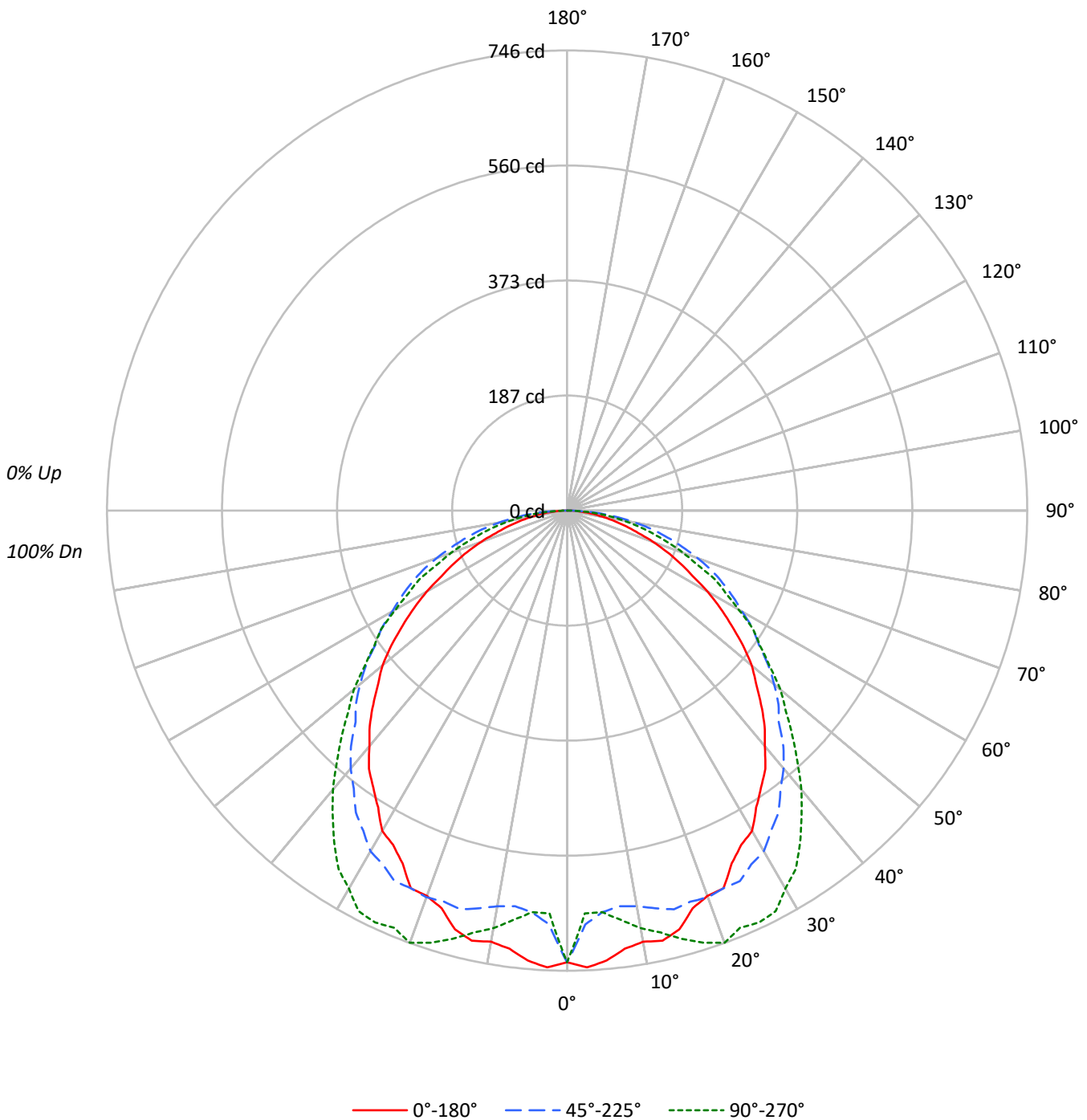
Lumens per Lamp: N/A
Luminaire Lumens: 2081.0 lumens
Efficiency: N/A
Efficacy: 127.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.39 / 1.38
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 16.3
Input Voltage (V): NR
Input Current (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	103	99	95	106	101	97	93	97	94	90	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	47	73	61	53	46	59	52	46	57	50	45	55	49	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	33	28	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3941	3941	3941
5°	3956	3531	3531
10°	3878	3559	3756
15°	3917	3729	4004
20°	3808	3820	4271
25°	3748	3935	4375
30°	3727	3964	4397
35°	3600	3925	4324
40°	3503	3835	4150
45°	3385	3692	3932
50°	3272	3667	3779
55°	3056	3562	3582
60°	2829	3529	3457
65°	2574	3547	3375
70°	2332	3534	3146
75°	2054	3502	2988
80°	1810	3481	2854
85°	1667	3328	2637



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.9	3.1
10°-20°	191.3	9.2
20°-30°	304.5	14.6
30°-40°	366.9	17.6
40°-50°	367.8	17.7
50°-60°	325.3	15.6
60°-70°	251.3	12.1
70°-80°	157.5	7.6
80°-90°	52.4	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°	559.7	26.9
0°-40°	926.7	44.5
0°-60°	1619.8	77.8
0°-90°	2081.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2081.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	732	732	732	732	732	
5°	732	660	654	658	654	69
15°	703	622	669	708	719	196
25°	631	586	663	723	737	292
35°	548	510	597	642	658	344
45°	445	424	485	505	517	343
55°	326	332	380	384	382	292
65°	202	243	278	263	265	201
75°	99	157	168	148	144	106
85°	27	58	54	45	43	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	732.2	732.2	732.2	732.2	732.2
2.5°	741.2	712.0	671.5	658.1	653.6
5°	732.2	660.3	653.6	658.1	653.6
7.5°	716.5	642.3	646.8	664.8	669.3
10°	709.7	644.6	651.3	682.8	687.3
12.5°	714.2	631.1	660.3	694.0	700.7
15°	703.0	622.1	669.3	707.5	718.7
17.5°	676.0	617.6	664.8	714.2	734.4
20°	664.8	610.9	667.0	720.9	745.7
22.5°	662.6	597.4	662.6	723.2	732.2
25°	631.1	586.2	662.6	723.2	736.7
27.5°	610.9	570.5	646.8	703.0	732.2
30°	599.7	550.3	637.8	689.5	707.5
32.5°	570.5	532.3	615.4	667.0	689.5
35°	548.0	509.8	597.4	642.3	658.1
37.5°	527.8	489.6	568.2	610.9	624.4
40°	498.6	469.4	545.8	577.2	590.7
42.5°	473.9	449.2	518.8	548.0	552.5
45°	444.7	424.5	485.1	505.3	516.6
47.5°	415.5	399.8	464.9	476.1	480.6
50°	390.8	379.6	438.0	446.9	451.4
52.5°	359.4	354.9	411.0	413.3	413.3
55°	325.7	332.4	379.6	384.1	381.8
57.5°	294.2	309.9	357.1	352.6	357.1
60°	262.8	285.2	327.9	325.7	321.2
62.5°	229.1	265.0	303.2	294.2	289.7
65°	202.1	242.6	278.5	262.8	265.0
67.5°	175.2	220.1	253.8	231.3	226.8
70°	148.2	197.6	224.6	204.4	199.9
72.5°	121.3	179.7	195.4	175.2	170.7
75°	98.8	157.2	168.4	148.2	143.7
77.5°	78.6	134.8	141.5	123.5	119.0
80°	58.4	112.3	112.3	96.6	92.1
82.5°	42.7	85.3	83.1	69.6	69.6
85°	27.0	58.4	53.9	44.9	42.7
87.5°	13.5	27.0	24.7	18.0	18.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)