

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: P184005

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P184005
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-L850-CD1-U
Description: METALUX SKYRIDGE EDGELIT LED 1X2 TROFFER

Light Source: EATON LED 5000K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

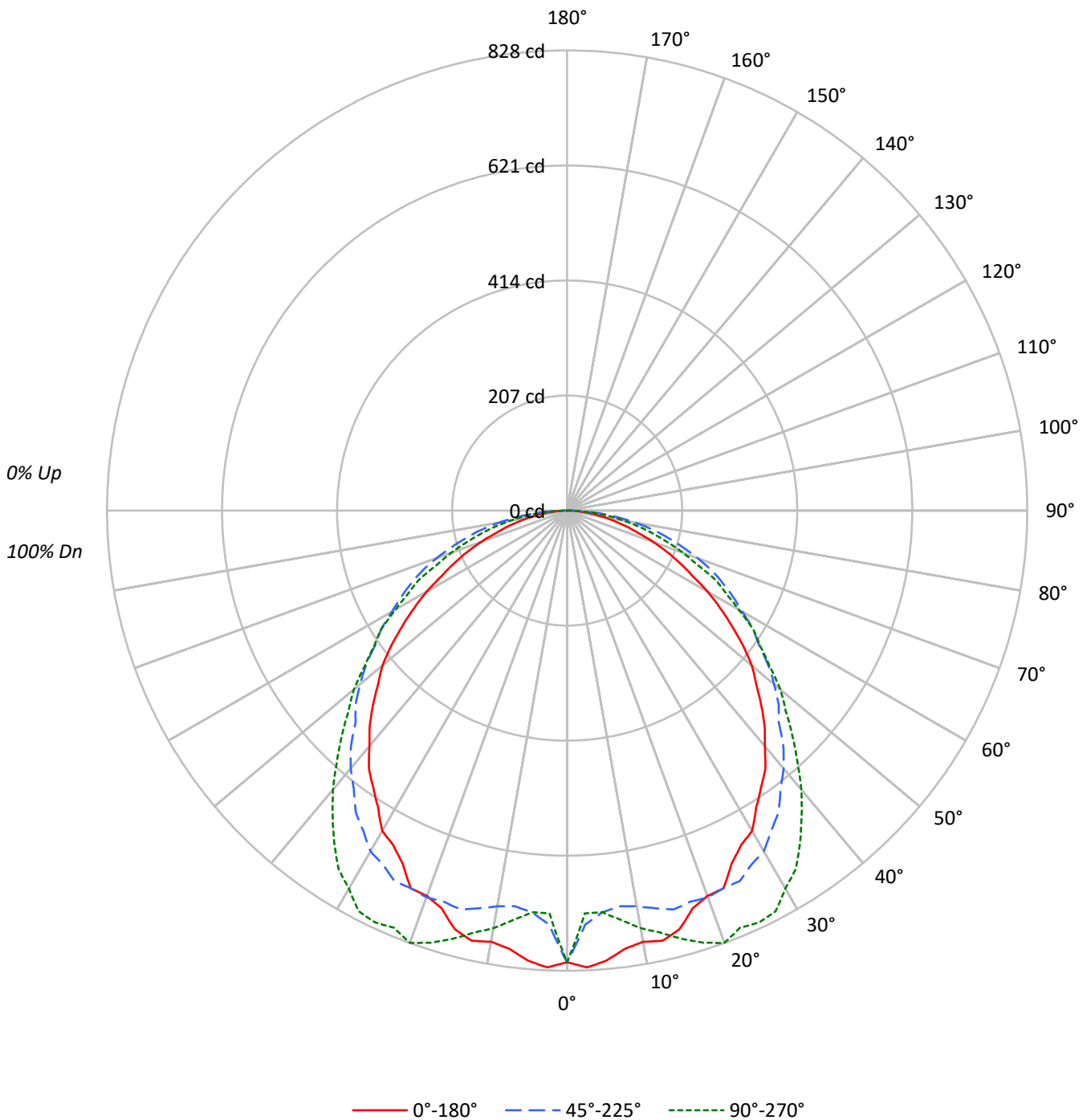
Lumens per Lamp: N/A
Luminaire Lumens: 2309.9 lumens
Efficiency: N/A
Efficacy: 141.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.39 / 1.38
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 16.3
Input Voltage (V): NR
Input Current (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	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°	4374	4374	4374
5°	4391	3920	3920
10°	4305	3951	4169
15°	4348	4139	4445
20°	4226	4241	4741
25°	4160	4367	4856
30°	4136	4400	4880
35°	3997	4357	4799
40°	3888	4256	4607
45°	3757	4099	4364
50°	3632	4070	4196
55°	3392	3953	3977
60°	3140	3918	3837
65°	2858	3936	3747
70°	2589	3923	3492
75°	2281	3889	3319
80°	2008	3865	3168
85°	1846	3693	2927



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.9	3.1
10°-20°	212.4	9.2
20°-30°	338.0	14.6
30°-40°	407.3	17.6
40°-50°	408.3	17.7
50°-60°	361.1	15.6
60°-70°	278.9	12.1
70°-80°	174.9	7.6
80°-90°	58.1	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°	621.3	26.9
0°-40°	1028.6	44.5
0°-60°	1798.0	77.8
0°-90°	2309.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2309.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	813	813	813	813	813	
5°	813	733	726	730	726	77
15°	780	691	743	785	798	218
25°	700	651	735	803	818	325
35°	608	566	663	713	730	381
45°	494	471	538	561	573	381
55°	362	369	421	426	424	324
65°	224	269	309	292	294	223
75°	110	174	187	164	160	118
85°	30	65	60	50	47	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	812.7	812.7	812.7	812.7	812.7
2.5°	822.7	790.3	745.4	730.4	725.5
5°	812.7	732.9	725.5	730.4	725.5
7.5°	795.3	713.0	718.0	737.9	742.9
10°	787.8	715.5	723.0	757.9	762.9
12.5°	792.8	700.5	732.9	770.3	777.8
15°	780.3	690.6	742.9	785.3	797.8
17.5°	750.4	685.6	737.9	792.8	815.2
20°	737.9	678.1	740.4	800.3	827.7
22.5°	735.4	663.1	735.4	802.7	812.7
25°	700.5	650.7	735.4	802.7	817.7
27.5°	678.1	633.2	718.0	780.3	812.7
30°	665.6	610.8	708.0	765.4	785.3
32.5°	633.2	590.8	683.1	740.4	765.4
35°	608.3	565.9	663.1	713.0	730.4
37.5°	585.9	543.5	630.7	678.1	693.1
40°	553.4	521.0	605.8	640.7	655.7
42.5°	526.0	498.6	575.9	608.3	613.3
45°	493.6	471.2	538.5	560.9	573.4
47.5°	461.2	443.8	516.1	528.5	533.5
50°	433.8	421.3	486.1	496.1	501.1
52.5°	398.9	393.9	456.2	458.7	458.7
55°	361.5	369.0	421.3	426.3	423.8
57.5°	326.6	344.0	396.4	391.4	396.4
60°	291.7	316.6	364.0	361.5	356.5
62.5°	254.3	294.2	336.6	326.6	321.6
65°	224.4	269.2	309.1	291.7	294.2
67.5°	194.5	244.3	281.7	256.8	251.8
70°	164.5	219.4	249.3	226.9	221.9
72.5°	134.6	199.4	216.9	194.5	189.5
75°	109.7	174.5	187.0	164.5	159.6
77.5°	87.3	149.6	157.1	137.1	132.1
80°	64.8	124.7	124.7	107.2	102.2
82.5°	47.4	94.7	92.2	77.3	77.3
85°	29.9	64.8	59.8	49.9	47.4
87.5°	15.0	29.9	27.4	19.9	19.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)