

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: P184004

Luminaire Tested: **12SR-LD2-20-C-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P184004
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-L840-CD1-U
Description: METALUX SKYRIDGE EDGELIT LED 1X2 TROFFER

Light Source: EATON LED 4000K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2122.6 lumens
Efficiency: N/A
Efficacy: 130.2 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

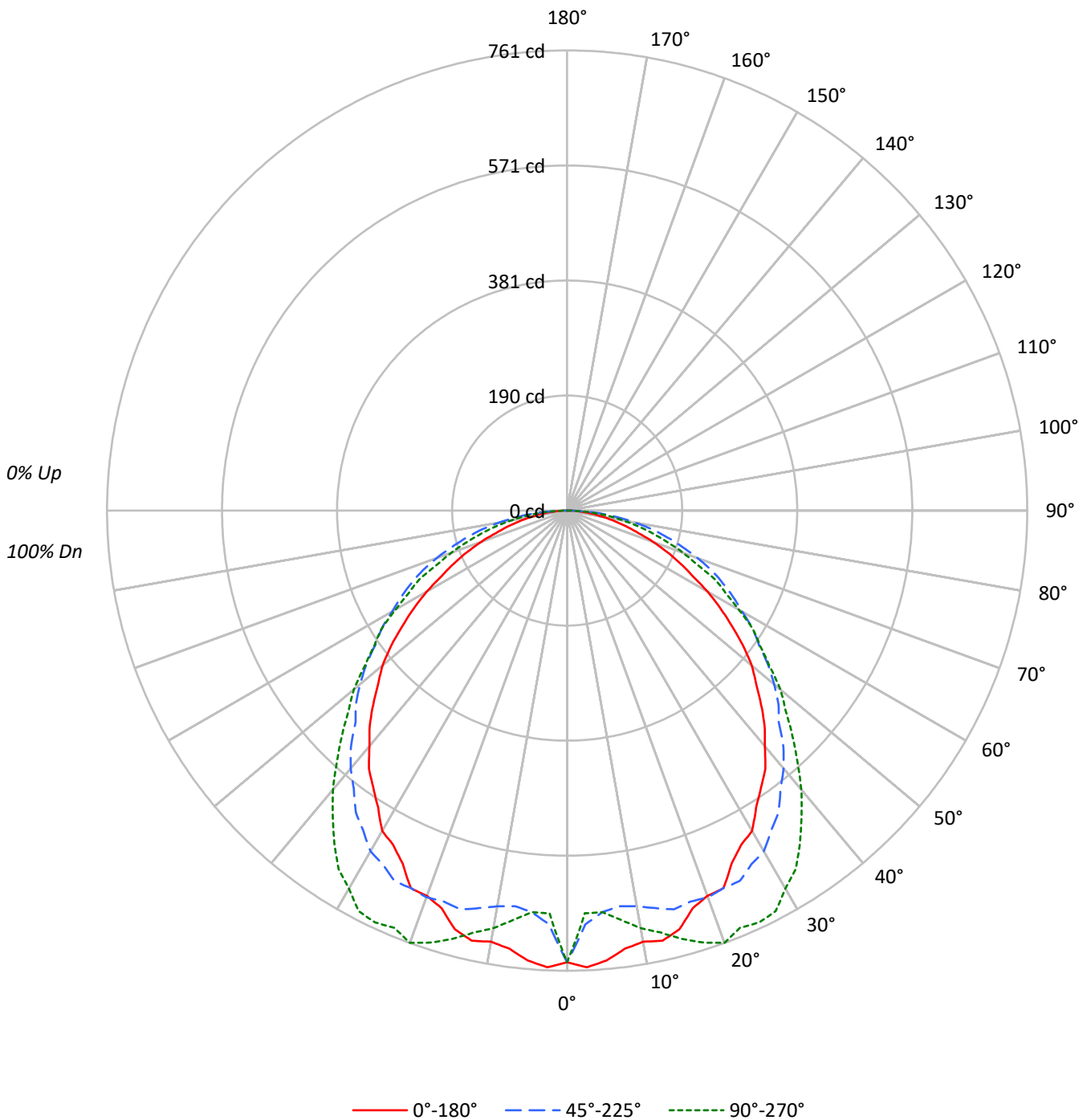
Input Watts (W): 16.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4019	4019	4019
5°	4035	3601	3601
10°	3956	3631	3831
15°	3995	3804	4085
20°	3884	3897	4356
25°	3823	4013	4462
30°	3801	4043	4484
35°	3673	4004	4410
40°	3573	3911	4233
45°	3452	3766	4010
50°	3337	3740	3856
55°	3117	3633	3654
60°	2885	3601	3526
65°	2626	3618	3442
70°	2379	3605	3209
75°	2096	3572	3048
80°	1847	3549	2910
85°	1698	3396	2686



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.2	3.1
10°-20°	195.2	9.2
20°-30°	310.6	14.6
30°-40°	374.3	17.6
40°-50°	375.2	17.7
50°-60°	331.8	15.6
60°-70°	256.3	12.1
70°-80°	160.7	7.6
80°-90°	53.4	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°	570.9	26.9
0°-40°	945.2	44.5
0°-60°	1652.2	77.8
0°-90°	2122.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2122.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	747	747	747	747	747	
5°	747	674	667	671	667	70
15°	717	635	683	722	733	200
25°	644	598	676	738	751	298
35°	559	520	609	655	671	351
45°	454	433	495	515	527	350
55°	332	339	387	392	389	298
65°	206	247	284	268	270	205
75°	101	160	172	151	147	108
85°	28	60	55	46	44	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	746.8	746.8	746.8	746.8	746.8
2.5°	756.0	726.2	685.0	671.2	666.6
5°	746.8	673.5	666.6	671.2	666.6
7.5°	730.8	655.2	659.8	678.1	682.7
10°	723.9	657.5	664.4	696.4	701.0
12.5°	728.5	643.7	673.5	707.9	714.8
15°	717.0	634.6	682.7	721.6	733.1
17.5°	689.6	630.0	678.1	728.5	749.1
20°	678.1	623.1	680.4	735.4	760.6
22.5°	675.8	609.4	675.8	737.7	746.8
25°	643.7	597.9	675.8	737.7	751.4
27.5°	623.1	581.9	659.8	717.0	746.8
30°	611.7	561.3	650.6	703.3	721.6
32.5°	581.9	542.9	627.7	680.4	703.3
35°	559.0	520.0	609.4	655.2	671.2
37.5°	538.4	499.4	579.6	623.1	636.9
40°	508.6	478.8	556.7	588.8	602.5
42.5°	483.4	458.2	529.2	559.0	563.6
45°	453.6	433.0	494.8	515.4	526.9
47.5°	423.8	407.8	474.2	485.7	490.2
50°	398.6	387.2	446.7	455.9	460.5
52.5°	366.5	362.0	419.2	421.5	421.5
55°	332.2	339.0	387.2	391.7	389.4
57.5°	300.1	316.1	364.2	359.7	364.2
60°	268.0	290.9	334.5	332.2	327.6
62.5°	233.7	270.3	309.3	300.1	295.5
65°	206.2	247.4	284.1	268.0	270.3
67.5°	178.7	224.5	258.9	236.0	231.4
70°	151.2	201.6	229.1	208.5	203.9
72.5°	123.7	183.3	199.3	178.7	174.1
75°	100.8	160.4	171.8	151.2	146.6
77.5°	80.2	137.5	144.3	126.0	121.4
80°	59.6	114.5	114.5	98.5	93.9
82.5°	43.5	87.1	84.8	71.0	71.0
85°	27.5	59.6	55.0	45.8	43.5
87.5°	13.7	27.5	25.2	18.3	18.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)