

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: P183880

Luminaire Tested: **22SR-LD2-20-S-UNV-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183880
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P32591)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22SR-LD2-20-S-UNV-L850-CD1-U
Description: METALUX SKYRIDGE EDGELIT LED 2X2 TROFFER

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

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2268.0 lumens
Efficiency: N/A
Efficacy: 147.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.61 / 1.54
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

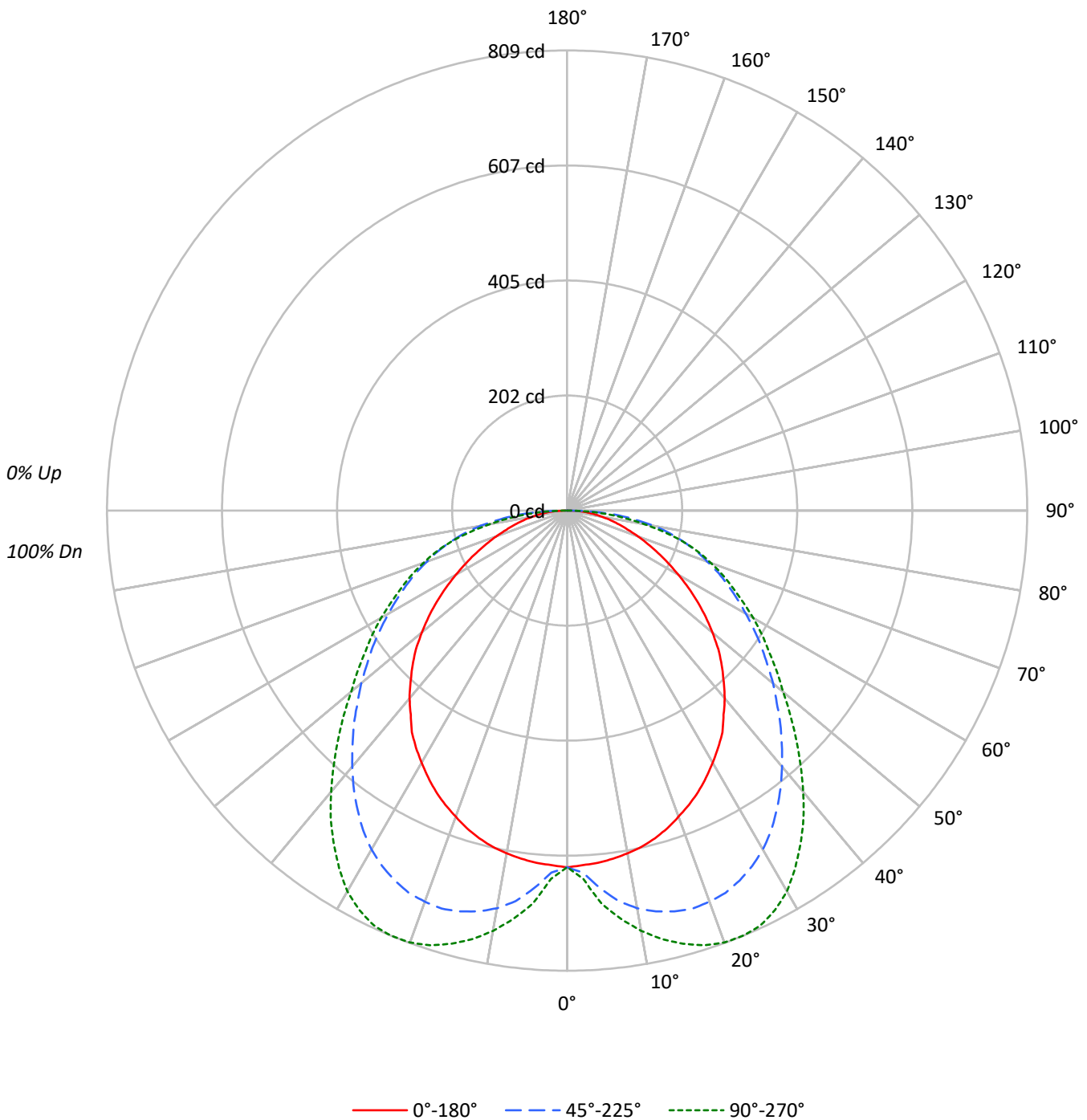
Input Watts (W): 15.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	98	94	105	100	96	92	96	93	89	92	89	87	88	86	84	82
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67
3	89	78	69	62	86	76	68	62	73	66	61	70	65	60	68	63	59	56
4	81	69	60	53	79	67	59	52	65	57	52	63	56	51	60	55	50	48
5	75	61	52	45	72	60	52	45	58	50	44	56	49	44	54	48	43	41
6	69	55	46	39	67	54	46	39	52	45	39	51	44	38	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	39	34	32
8	59	46	37	31	58	45	37	31	43	36	31	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25
10	52	39	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1688	1688	1688
5°	1679	1800	1873
10°	1672	1940	2050
15°	1662	2032	2196
20°	1640	2095	2314
25°	1620	2130	2389
30°	1590	2138	2402
35°	1563	2110	2350
40°	1514	2065	2268
45°	1462	2018	2167
50°	1395	1978	2074
55°	1313	1956	2033
60°	1213	1951	2033
65°	1123	1990	2045
70°	1045	2065	2116
75°	985	2207	2196
80°	945	2396	2143
85°	1044	2621	2118



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.2	2.8
10°-20°	202.2	8.9
20°-30°	322.6	14.2
30°-40°	388.3	17.1
40°-50°	389.5	17.2
50°-60°	348.2	15.4
60°-70°	282.1	12.4
70°-80°	196.4	8.7
80°-90°	74.7	3.3
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°	589.0	26.0
0°-40°	977.3	43.1
0°-60°	1714.9	75.6
0°-90°	2268.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2268.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	627	627	627	627	627	
5°	622	636	666	688	694	59
15°	597	666	730	773	788	168
25°	546	632	718	782	805	251
35°	476	551	642	699	715	296
45°	384	450	530	562	569	296
55°	280	351	417	430	433	250
65°	176	258	312	317	321	175
75°	95	174	212	211	211	101
85°	34	75	85	73	69	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	627.1	627.1	627.1	627.1	627.1
2.5°	623.9	627.1	636.9	645.6	647.8
5°	621.7	635.8	666.3	688.1	693.5
7.5°	617.3	646.7	692.4	715.3	724.0
10°	611.9	658.7	709.9	739.3	750.2
12.5°	605.3	666.3	721.8	758.9	771.9
15°	596.6	666.3	729.5	773.0	788.3
17.5°	585.7	663.1	733.8	782.8	801.3
20°	572.7	656.5	731.6	788.3	807.9
22.5°	559.6	645.6	727.3	788.3	808.9
25°	545.5	631.5	717.5	781.7	804.6
27.5°	529.1	615.1	704.4	769.7	791.5
30°	511.7	595.5	688.1	752.3	773.0
32.5°	494.3	573.8	667.4	728.4	745.8
35°	475.8	550.9	642.4	699.0	715.3
37.5°	451.8	524.8	616.2	667.4	682.6
40°	431.1	500.8	587.9	633.7	645.6
42.5°	407.2	474.7	558.5	597.7	607.5
45°	384.3	449.7	530.2	561.8	569.4
47.5°	360.4	423.5	499.7	525.9	532.4
50°	333.2	398.5	472.5	494.3	495.4
52.5°	307.0	374.5	443.1	460.5	464.9
55°	279.8	350.6	417.0	430.1	433.3
57.5°	252.6	327.7	389.8	400.7	406.1
60°	225.4	303.8	362.6	372.4	377.8
62.5°	200.3	280.9	337.5	344.0	348.4
65°	176.4	258.0	312.5	316.8	321.2
67.5°	153.5	237.3	288.5	290.7	296.1
70°	132.8	216.7	262.4	264.6	268.9
72.5°	112.1	194.9	238.4	237.3	241.7
75°	94.7	174.2	212.3	211.2	211.2
77.5°	78.4	152.4	185.1	178.6	175.3
80°	61.0	129.6	154.6	141.5	138.3
82.5°	47.9	103.4	119.8	106.7	103.4
85°	33.8	75.1	84.9	72.9	68.6
87.5°	17.4	40.3	43.6	37.0	31.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)