

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: P184015

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P184015
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P166788)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 12SR-LD2-12-S-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: 1316.8 lumens
Efficiency: N/A
Efficacy: 133.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.54 / 1.5
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

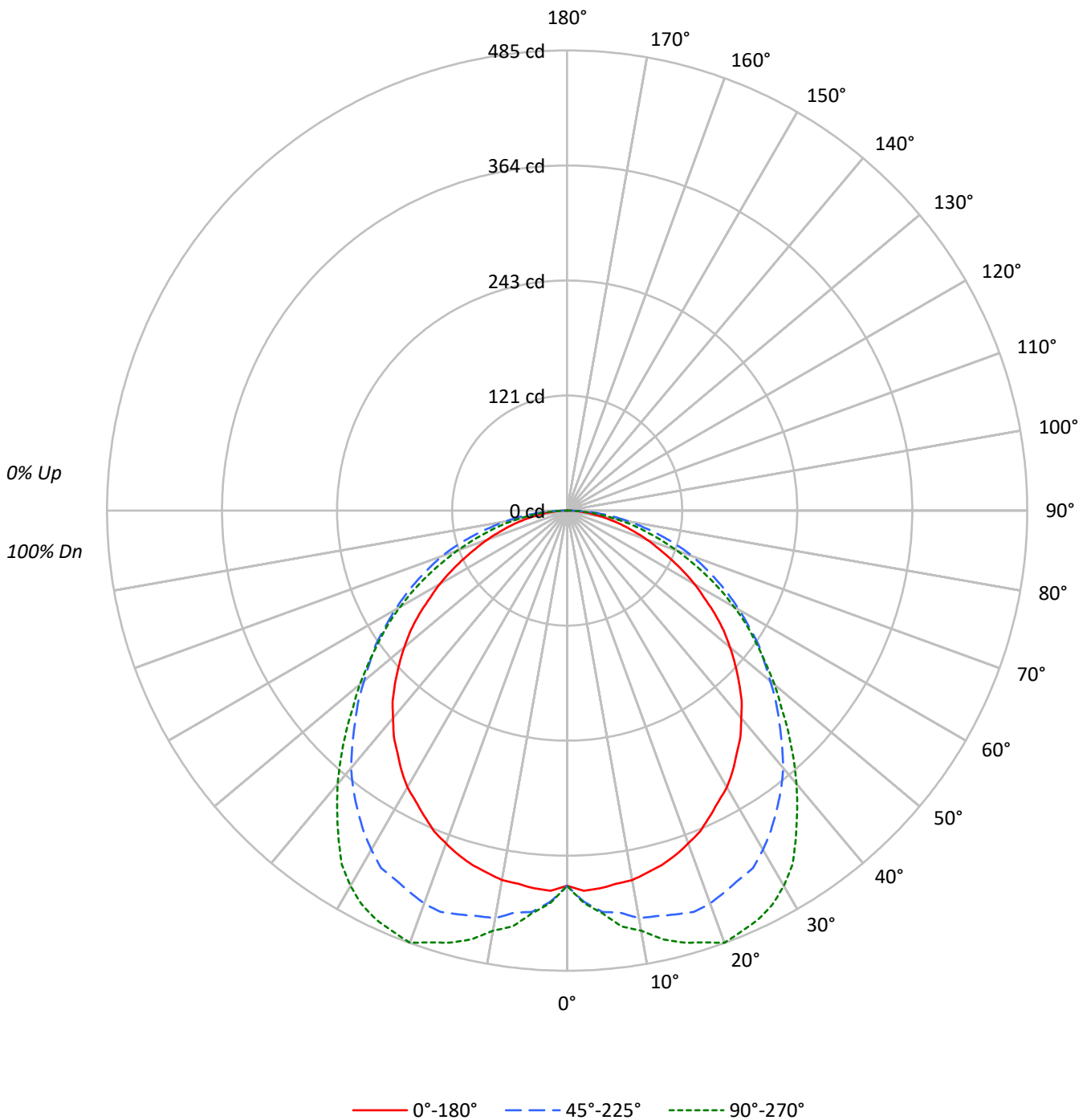
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	73	61	53	47	59	52	46	57	51	46	55	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2127	2127	2127
5°	2159	2294	2301
10°	2160	2384	2457
15°	2154	2455	2627
20°	2138	2523	2775
25°	2112	2548	2825
30°	2092	2565	2838
35°	2049	2530	2761
40°	2005	2489	2643
45°	1950	2407	2507
50°	1876	2341	2390
55°	1786	2308	2280
60°	1671	2253	2190
65°	1529	2218	2069
70°	1405	2212	1934
75°	1279	2131	1797
80°	1134	2042	1680
85°	1081	1988	1451



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.2	3.1
10°-20°	123.2	9.4
20°-30°	194.6	14.8
30°-40°	234.0	17.8
40°-50°	234.1	17.8
50°-60°	206.0	15.6
60°-70°	157.4	12.0
70°-80°	96.3	7.3
80°-90°	31.1	2.4
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°	357.9	27.2
0°-40°	591.9	45.0
0°-60°	1032.0	78.4
0°-90°	1316.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1316.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	395	395	395	395	395	
5°	400	408	425	426	426	38
15°	386	408	441	463	471	109
25°	356	381	429	463	476	164
35°	312	335	385	413	420	195
45°	256	274	316	328	329	197
55°	190	215	246	244	243	170
65°	120	154	174	166	162	120
75°	62	98	102	91	86	65
85°	18	35	32	25	24	19
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	395.3	395.3	395.3	395.3	395.3
2.5°	401.1	399.7	412.8	414.3	414.3
5°	399.7	408.5	424.6	426.0	426.0
7.5°	396.7	414.3	427.4	437.7	442.1
10°	395.3	415.8	436.2	443.6	449.5
12.5°	390.9	412.8	437.7	453.9	462.6
15°	386.5	408.5	440.6	462.6	471.4
17.5°	380.6	405.5	443.6	467.0	477.2
20°	373.3	401.1	440.6	469.9	484.6
22.5°	366.0	390.9	434.8	468.4	480.2
25°	355.7	380.6	429.0	462.6	475.8
27.5°	345.5	370.4	424.6	456.7	468.4
30°	336.7	360.1	412.8	443.6	456.7
32.5°	325.0	348.4	399.7	430.4	442.1
35°	311.9	335.2	385.0	412.8	420.2
37.5°	300.1	320.6	370.4	392.3	398.2
40°	285.4	304.5	354.3	370.4	376.2
42.5°	272.3	291.3	335.2	352.8	352.8
45°	256.2	273.8	316.2	327.9	329.4
47.5°	240.1	260.5	298.6	305.9	305.9
50°	224.0	246.0	279.6	285.4	285.4
52.5°	207.9	229.8	262.1	264.9	263.5
55°	190.3	215.2	246.0	244.5	243.0
57.5°	171.3	199.1	226.9	224.0	224.0
60°	155.2	184.4	209.3	204.9	203.5
62.5°	137.6	168.3	191.8	185.9	183.0
65°	120.1	153.7	174.2	165.5	162.5
67.5°	104.0	140.6	156.6	145.0	142.0
70°	89.3	125.9	140.6	125.9	122.9
72.5°	74.7	111.3	121.5	108.3	104.0
75°	61.5	98.1	102.5	90.8	86.4
77.5°	48.3	83.4	83.4	71.7	70.3
80°	36.6	68.8	65.9	55.6	54.2
82.5°	26.3	51.2	49.8	41.0	38.1
85°	17.5	35.1	32.2	24.9	23.5
87.5°	8.8	17.5	14.6	10.2	10.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)