

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: P183992

Luminaire Tested: **12SR-LD2-12-C-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183992
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-LD2-12-C-UNV-L830-CD1-U
Description: METALUX SKYRIDGE EDGELIT LED 1X2 TROFFER

Light Source: EATON LED 3000K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1217.4 lumens
Efficiency: N/A
Efficacy: 123.0 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

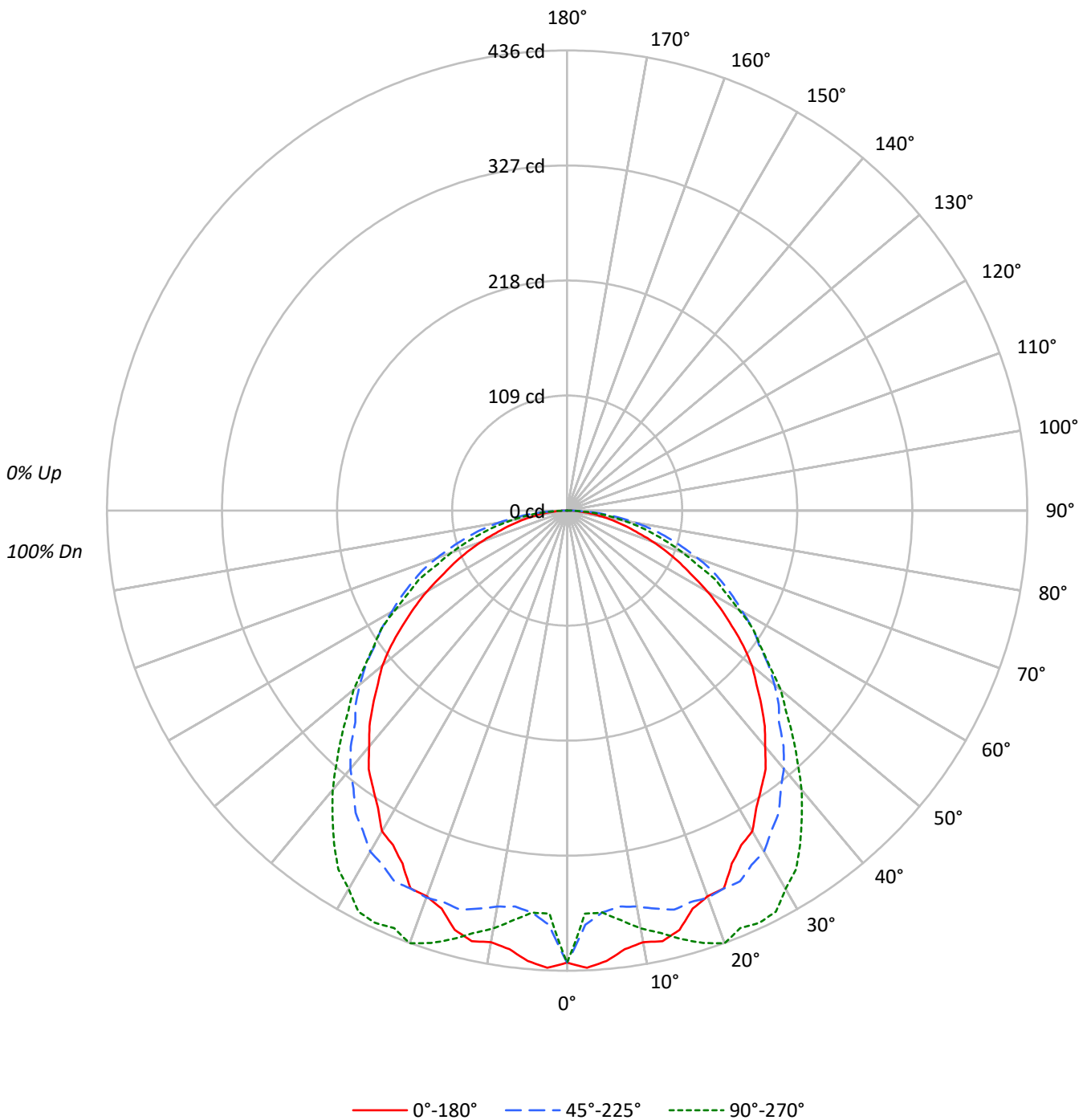
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2305	2305	2305
5°	2314	2065	2065
10°	2269	2082	2197
15°	2291	2181	2342
20°	2227	2235	2498
25°	2192	2302	2559
30°	2180	2319	2572
35°	2106	2296	2530
40°	2049	2243	2427
45°	1980	2160	2300
50°	1914	2145	2211
55°	1787	2083	2096
60°	1654	2065	2023
65°	1505	2074	1974
70°	1364	2068	1840
75°	1202	2048	1749
80°	1060	2036	1671
85°	976	1945	1544



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.4	3.1
10°-20°	111.9	9.2
20°-30°	178.1	14.6
30°-40°	214.6	17.6
40°-50°	215.2	17.7
50°-60°	190.3	15.6
60°-70°	147.0	12.1
70°-80°	92.2	7.6
80°-90°	30.6	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°	327.4	26.9
0°-40°	542.1	44.5
0°-60°	947.6	77.8
0°-90°	1217.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1217.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	428	428	428	428	428	
5°	428	386	382	385	382	40
15°	411	364	392	414	420	115
25°	369	343	388	423	431	171
35°	321	298	350	376	385	201
45°	260	248	284	296	302	201
55°	190	194	222	225	223	171
65°	118	142	163	154	155	117
75°	58	92	98	87	84	62
85°	16	34	32	26	25	18
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	428.3	428.3	428.3	428.3	428.3
2.5°	433.6	416.5	392.8	385.0	382.3
5°	428.3	386.3	382.3	385.0	382.3
7.5°	419.1	375.8	378.4	388.9	391.5
10°	415.2	377.1	381.0	399.4	402.0
12.5°	417.8	369.2	386.3	406.0	409.9
15°	411.2	363.9	391.5	413.9	420.4
17.5°	395.5	361.3	388.9	417.8	429.6
20°	388.9	357.4	390.2	421.7	436.2
22.5°	387.6	349.5	387.6	423.1	428.3
25°	369.2	342.9	387.6	423.1	430.9
27.5°	357.4	333.7	378.4	411.2	428.3
30°	350.8	321.9	373.1	403.3	413.9
32.5°	333.7	311.4	360.0	390.2	403.3
35°	320.6	298.2	349.5	375.8	385.0
37.5°	308.8	286.4	332.4	357.4	365.2
40°	291.7	274.6	319.3	337.7	345.5
42.5°	277.2	262.8	303.5	320.6	323.2
45°	260.1	248.3	283.8	295.6	302.2
47.5°	243.1	233.9	272.0	278.5	281.2
50°	228.6	222.0	256.2	261.5	264.1
52.5°	210.2	207.6	240.4	241.7	241.7
55°	190.5	194.4	222.0	224.7	223.4
57.5°	172.1	181.3	208.9	206.3	208.9
60°	153.7	166.9	191.8	190.5	187.9
62.5°	134.0	155.0	177.4	172.1	169.5
65°	118.2	141.9	162.9	153.7	155.0
67.5°	102.5	128.8	148.5	135.3	132.7
70°	86.7	115.6	131.4	119.6	116.9
72.5°	70.9	105.1	114.3	102.5	99.9
75°	57.8	92.0	98.5	86.7	84.1
77.5°	46.0	78.8	82.8	72.3	69.6
80°	34.2	65.7	65.7	56.5	53.9
82.5°	25.0	49.9	48.6	40.7	40.7
85°	15.8	34.2	31.5	26.3	25.0
87.5°	7.9	15.8	14.5	10.5	10.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)