

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: P184012

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P184012  
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-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: 1150.7 lumens  
Efficiency: N/A  
Efficacy: 116.2 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

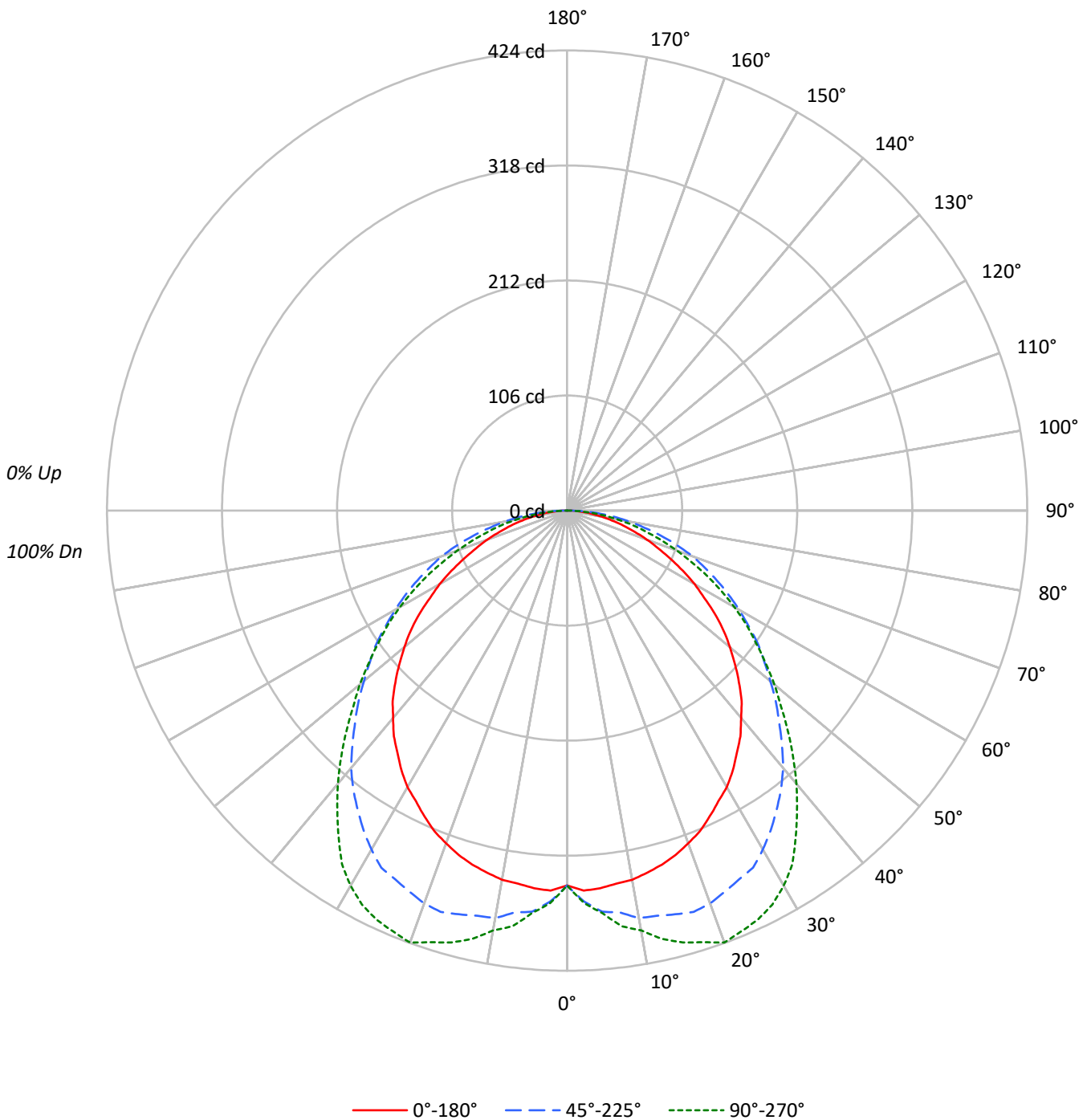
Input Watts (W): 9.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1859	1859	1859
5°	1887	2004	2011
10°	1888	2083	2147
15°	1882	2146	2295
20°	1868	2206	2426
25°	1846	2226	2469
30°	1828	2242	2480
35°	1790	2211	2413
40°	1752	2175	2310
45°	1704	2103	2191
50°	1639	2045	2088
55°	1560	2017	1993
60°	1460	1969	1914
65°	1336	1938	1808
70°	1229	1932	1690
75°	1117	1861	1570
80°	992	1785	1469
85°	945	1735	1266



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	35.1	3.1
10°-20°	107.6	9.4
20°-30°	170.0	14.8
30°-40°	204.5	17.8
40°-50°	204.6	17.8
50°-60°	180.0	15.6
60°-70°	137.6	12.0
70°-80°	84.2	7.3
80°-90°	27.2	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°	312.8	27.2
0°-40°	517.3	45.0
0°-60°	901.9	78.4
0°-90°	1150.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1150.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	345	345	345	345	345	
5°	349	357	371	372	372	33
15°	338	357	385	404	412	95
25°	311	333	375	404	416	143
35°	272	293	336	361	367	171
45°	224	239	276	287	288	173
55°	166	188	215	214	212	148
65°	105	134	152	145	142	105
75°	54	86	90	79	76	57
85°	15	31	28	22	20	17
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	345.4	345.4	345.4	345.4	345.4
2.5°	350.5	349.3	360.7	362.1	362.1
5°	349.3	357.0	371.0	372.3	372.3
7.5°	346.7	362.1	373.5	382.5	386.3
10°	345.4	363.3	381.2	387.7	392.8
12.5°	341.6	360.7	382.5	396.6	404.2
15°	337.7	357.0	385.1	404.2	411.9
17.5°	332.6	354.4	387.7	408.1	417.0
20°	326.2	350.5	385.1	410.7	423.5
22.5°	319.8	341.6	380.0	409.3	419.6
25°	310.9	332.6	374.9	404.2	415.8
27.5°	301.9	323.7	371.0	399.1	409.3
30°	294.2	314.7	360.7	387.7	399.1
32.5°	284.0	304.5	349.3	376.1	386.3
35°	272.5	292.9	336.5	360.7	367.2
37.5°	262.2	280.1	323.7	342.8	348.0
40°	249.4	266.1	309.6	323.7	328.8
42.5°	238.0	254.5	292.9	308.3	308.3
45°	223.9	239.2	276.3	286.6	287.8
47.5°	209.8	227.7	261.0	267.3	267.3
50°	195.7	215.0	244.3	249.4	249.4
52.5°	181.7	200.8	229.0	231.5	230.3
55°	166.3	188.0	215.0	213.6	212.4
57.5°	149.7	174.0	198.3	195.7	195.7
60°	135.6	161.2	182.9	179.1	177.8
62.5°	120.2	147.1	167.6	162.5	159.9
65°	104.9	134.3	152.2	144.6	142.0
67.5°	90.9	122.8	136.9	126.7	124.1
70°	78.1	110.0	122.8	110.0	107.4
72.5°	65.3	97.2	106.2	94.6	90.9
75°	53.7	85.7	89.5	79.3	75.5
77.5°	42.3	72.9	72.9	62.7	61.4
80°	32.0	60.2	57.6	48.6	47.4
82.5°	23.0	44.8	43.5	35.8	33.3
85°	15.3	30.7	28.1	21.8	20.5
87.5°	7.7	15.3	12.8	9.0	9.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)