

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: P183914

Luminaire Tested: **14SR-LD2-25-C-UNV-L840-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P183914  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34451)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14SR-LD2-25-C-UNV-L840-CD1-U  
Description: METALUX SKYRIDGE EDGELIT LED 1X4 TROFFER  
  
Light Source: EATON LED 4000K  
Ballast/Driver: OSRAM ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2560.2 lumens  
Efficiency: N/A  
Efficacy: 122.5 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.42 / 1.41  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

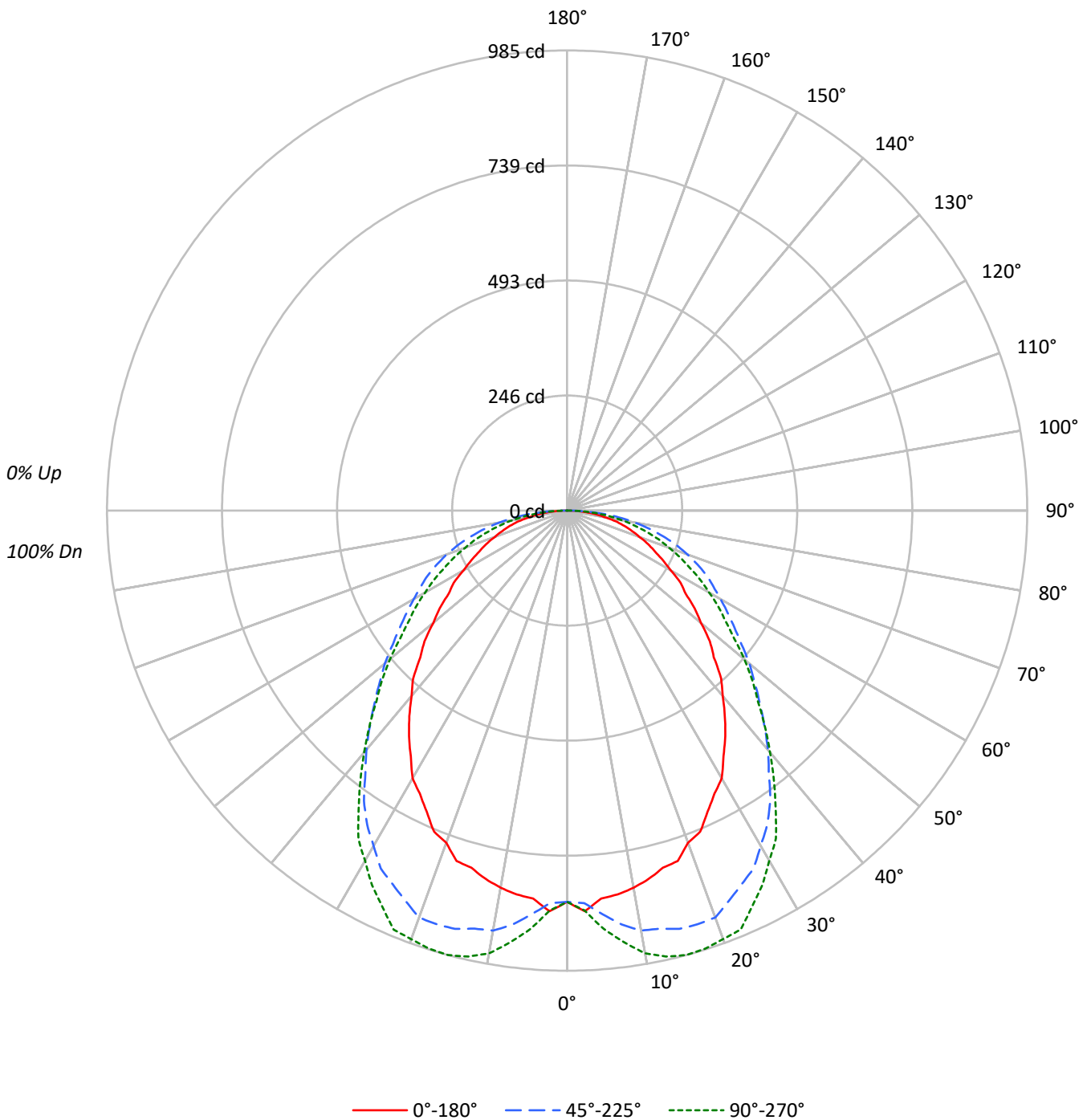
Input Watts (W): 20.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	91	93	90	88	89	87	85	83
2	99	90	83	77	96	88	82	77	85	79	75	81	77	73	78	75	71	69
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58
4	83	70	62	55	80	69	61	55	67	59	54	64	58	53	62	57	52	50
5	76	63	54	48	74	62	54	47	60	52	47	58	51	46	56	50	46	44
6	70	57	48	42	68	56	48	41	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30
9	57	44	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2253	2253	2253
5°	2253	2343	2428
10°	2240	2494	2629
15°	2206	2582	2744
20°	2167	2654	2795
25°	2111	2622	2778
30°	2056	2575	2689
35°	1938	2491	2555
40°	1819	2349	2374
45°	1690	2218	2198
50°	1565	2131	2073
55°	1450	2051	1944
60°	1379	2041	1890
65°	1319	2101	1845
70°	1298	2155	1823
75°	1314	2208	1826
80°	1278	2286	1850
85°	1247	2331	1843



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	84.4	3.3
10°-20°	259.1	10.1
20°-30°	399.0	15.6
30°-40°	456.7	17.8
40°-50°	431.7	16.9
50°-60°	366.7	14.3
60°-70°	291.6	11.4
70°-80°	197.7	7.7
80°-90°	73.3	2.9
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°	742.5	29.0
0°-40°	1199.2	46.8
0°-60°	1997.6	78.0
0°-90°	2560.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2560.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	837	837	837	837	837	
5°	834	851	867	897	899	79
15°	792	876	927	981	985	224
25°	711	830	883	930	936	328
35°	590	709	758	779	778	369
45°	444	550	583	590	578	345
55°	309	402	437	427	414	281
65°	207	297	330	302	290	207
75°	126	204	212	183	176	133
85°	40	86	76	61	60	45
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	837.4	837.4	837.4	837.4	837.4
2.5°	858.4	846.2	840.9	858.4	856.7
5°	833.9	851.4	867.2	897.1	898.8
7.5°	828.6	869.0	893.6	930.4	932.2
10°	819.8	872.5	912.9	956.7	962.0
12.5°	807.5	876.0	916.4	970.8	977.8
15°	791.7	876.0	926.9	981.3	984.8
17.5°	786.5	876.0	928.7	976.1	983.1
20°	756.6	867.2	926.9	969.0	976.1
22.5°	744.3	851.4	904.1	955.0	970.8
25°	711.0	830.4	883.0	930.4	935.7
27.5°	682.9	807.5	863.7	904.1	904.1
30°	661.8	779.4	828.6	867.2	865.5
32.5°	623.2	740.8	797.0	826.8	832.1
35°	589.8	709.2	758.4	779.4	777.7
37.5°	554.7	668.8	709.2	733.8	726.8
40°	517.9	628.5	668.8	684.6	675.9
42.5°	488.0	586.3	625.0	635.5	626.7
45°	444.1	549.5	582.8	589.8	577.6
47.5°	414.3	509.1	544.2	544.2	537.2
50°	373.9	470.5	509.1	498.6	495.1
52.5°	344.1	437.1	470.5	461.7	451.2
55°	309.0	402.0	437.1	426.6	414.3
57.5°	287.9	373.9	407.3	395.0	384.5
60°	256.3	345.8	379.2	363.4	351.1
62.5°	231.7	321.3	352.9	333.5	321.3
65°	207.1	296.7	330.0	301.9	289.7
67.5°	187.8	273.9	301.9	272.1	261.6
70°	165.0	247.5	273.9	242.3	231.7
72.5°	145.7	226.5	244.0	212.4	205.4
75°	126.4	203.6	212.4	182.6	175.6
77.5°	107.1	180.8	180.8	154.5	147.5
80°	82.5	154.5	147.5	124.6	119.4
82.5°	63.2	122.9	112.4	93.0	89.5
85°	40.4	86.0	75.5	61.4	59.7
87.5°	19.3	45.6	36.9	29.8	28.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)