

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: P183944

Luminaire Tested: **14SR-LD2-15-S-UNV-L840-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P183944  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P166748)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14SR-LD2-15-S-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: 1482.7 lumens  
Efficiency: N/A  
Efficacy: 109.8 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.5 / 1.46  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

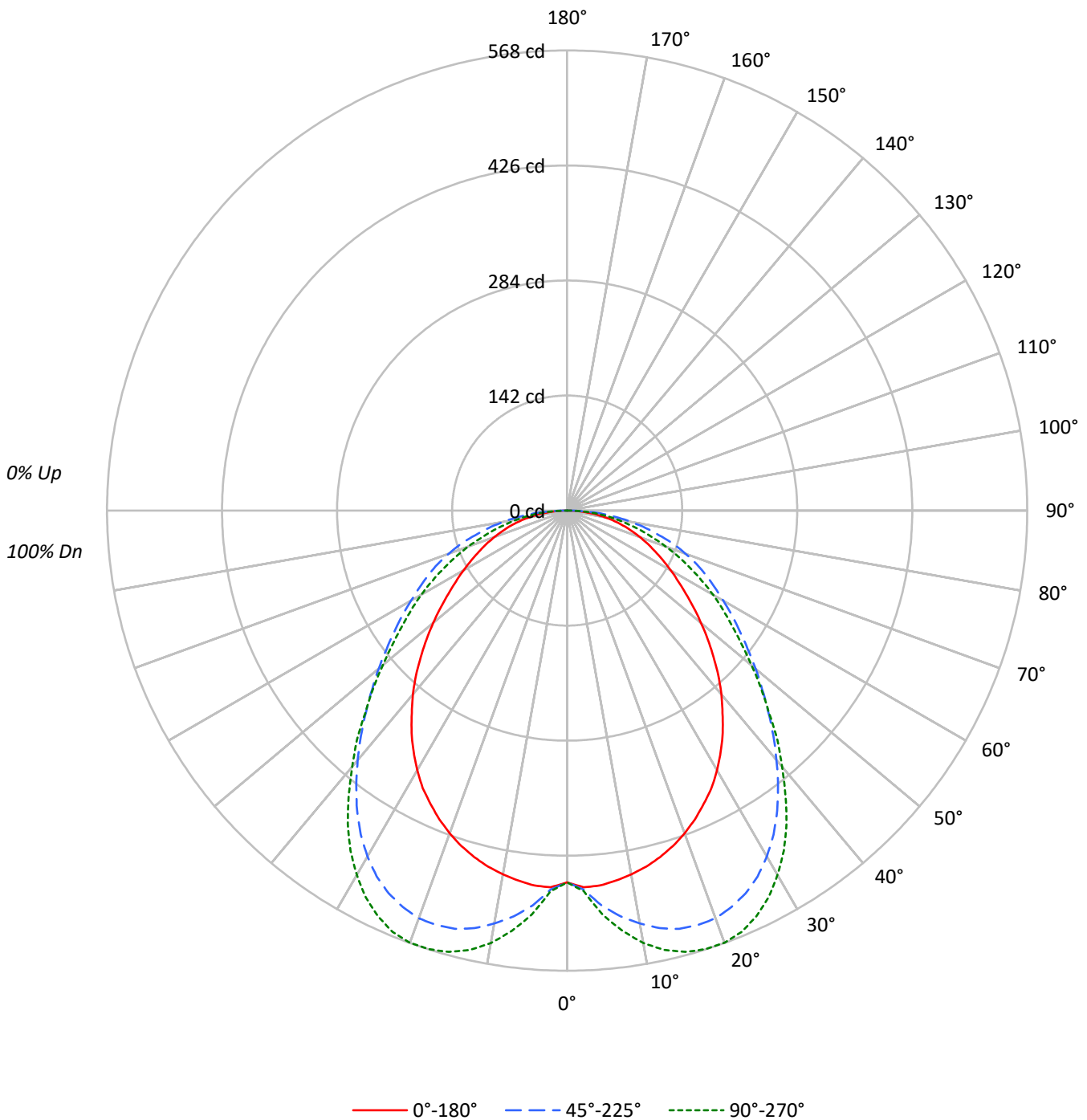
Input Watts (W): 13.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	89	87	85	83
2	99	90	83	78	96	88	82	77	85	80	75	82	77	73	79	75	72	69
3	90	79	71	65	88	78	70	64	75	68	63	72	67	62	70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	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	36	48	41	36	47	41	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	30	42	34	29	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°	1235	1235	1235
5°	1255	1321	1352
10°	1246	1414	1481
15°	1234	1489	1571
20°	1214	1534	1625
25°	1185	1548	1640
30°	1150	1532	1614
35°	1100	1486	1551
40°	1040	1413	1449
45°	972	1336	1340
50°	903	1271	1244
55°	839	1221	1167
60°	794	1196	1121
65°	765	1205	1066
70°	752	1221	1020
75°	748	1220	974
80°	733	1232	953
85°	701	1284	963



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	47.0	3.2
10°-20°	146.9	9.9
20°-30°	230.5	15.5
30°-40°	268.8	18.1
40°-50°	255.7	17.2
50°-60°	215.9	14.6
60°-70°	168.2	11.3
70°-80°	109.7	7.4
80°-90°	39.9	2.7
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°	424.4	28.6
0°-40°	693.2	46.8
0°-60°	1164.8	78.6
0°-90°	1482.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1482.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	459	459	459	459	459	
5°	464	466	489	500	500	44
15°	443	486	534	558	564	125
25°	399	464	521	546	552	184
35°	335	401	452	468	472	209
45°	255	313	351	355	352	197
55°	179	235	260	253	249	161
65°	120	172	189	174	167	120
75°	72	115	117	98	94	75
85°	23	49	42	32	31	25
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	458.8	458.8	458.8	458.8	458.8
2.5°	465.4	459.8	468.3	474.0	470.2
5°	464.5	466.4	489.2	500.4	500.4
7.5°	460.7	474.0	505.2	520.3	523.2
10°	456.0	480.6	517.5	537.4	542.1
12.5°	450.3	485.3	527.9	549.7	555.4
15°	442.8	486.3	534.5	558.2	563.9
17.5°	434.2	484.4	536.4	562.0	567.6
20°	423.8	480.6	535.5	561.0	567.6
22.5°	412.5	474.0	529.8	555.4	562.9
25°	399.2	464.5	521.3	545.9	552.5
27.5°	386.0	451.3	509.0	531.7	538.3
30°	370.0	437.1	492.9	514.7	519.4
32.5°	352.9	420.1	474.0	493.8	497.7
35°	334.9	401.1	452.2	468.3	472.1
37.5°	315.0	379.4	427.6	441.8	442.8
40°	296.1	357.6	402.1	413.4	412.5
42.5°	276.3	335.9	376.6	384.1	384.1
45°	255.4	313.1	351.0	354.7	352.0
47.5°	235.5	292.4	326.4	327.4	324.5
50°	215.7	271.5	303.7	300.9	297.1
52.5°	196.8	251.7	281.0	275.3	271.5
55°	178.8	234.6	260.2	252.6	248.8
57.5°	162.7	217.6	241.3	231.8	228.0
60°	147.6	201.5	222.3	211.9	208.2
62.5°	133.4	186.4	205.3	193.0	187.3
65°	120.2	172.2	189.2	174.1	167.4
67.5°	107.8	158.0	173.2	154.2	148.6
70°	95.6	143.8	155.2	135.3	129.6
72.5°	83.2	129.6	138.1	116.3	110.7
75°	71.9	115.4	117.3	98.4	93.7
77.5°	59.6	103.1	99.3	81.4	76.6
80°	47.3	87.1	79.5	64.3	61.5
82.5°	35.0	68.1	60.6	48.2	46.4
85°	22.7	49.2	41.6	32.1	31.2
87.5°	11.4	26.5	20.8	16.1	15.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)