

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: P183959

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P183959  
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-LD2-25-S-UNV-L840-CD1-U  
Description: METALUX SKYRIDGE EDGELIT LED 1X4 TROFFER  
  
Light Source: EATON LED 4000K  
Ballast/Driver: OSRAM ELECTRONIC DRIVER

**Summary**

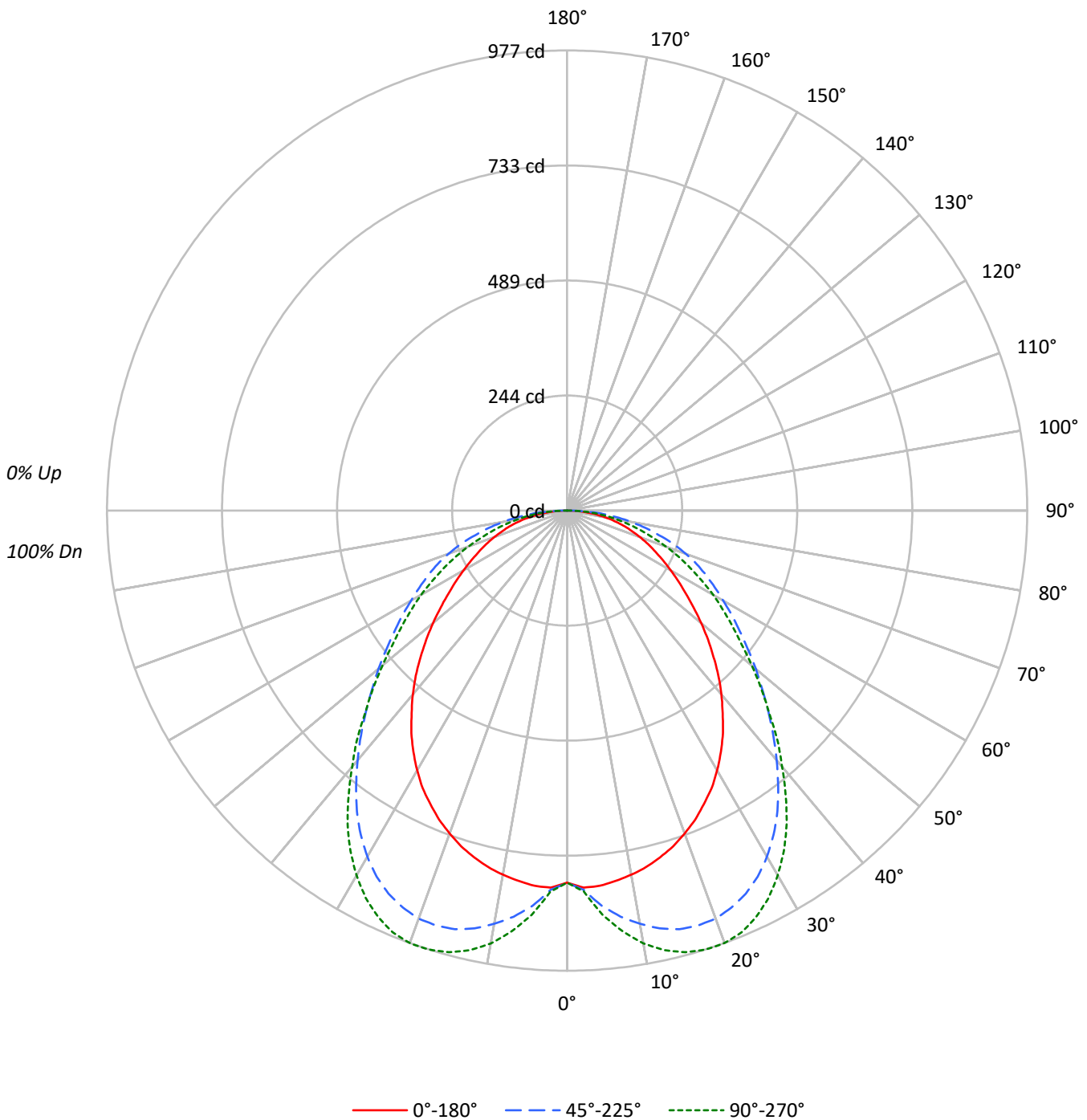
Lumens per Lamp: N/A  
Luminaire Lumens: 2552.4 lumens  
Efficiency: N/A  
Efficacy: 122.1 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.5 / 1.46  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 20.9  
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	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°	2126	2126	2126
5°	2160	2275	2327
10°	2145	2434	2550
15°	2124	2564	2704
20°	2089	2640	2798
25°	2041	2665	2824
30°	1979	2637	2779
35°	1894	2557	2670
40°	1791	2432	2494
45°	1673	2299	2306
50°	1554	2189	2141
55°	1444	2101	2009
60°	1368	2060	1928
65°	1317	2074	1836
70°	1294	2102	1755
75°	1286	2100	1677
80°	1263	2120	1640
85°	1207	2211	1661



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	80.8	3.2
10°-20°	252.9	9.9
20°-30°	396.8	15.5
30°-40°	462.7	18.1
40°-50°	440.3	17.2
50°-60°	371.7	14.6
60°-70°	289.6	11.3
70°-80°	188.8	7.4
80°-90°	68.7	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°	730.6	28.6
0°-40°	1193.3	46.8
0°-60°	2005.3	78.6
0°-90°	2552.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2552.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	790	790	790	790	790	
5°	800	803	842	862	862	76
15°	762	837	920	961	971	215
25°	687	800	897	940	951	316
35°	576	690	778	806	813	360
45°	440	539	604	611	606	340
55°	308	404	448	435	428	277
65°	207	296	326	300	288	206
75°	124	199	202	169	161	130
85°	39	85	72	55	54	43
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	789.9	789.9	789.9	789.9	789.9
2.5°	801.3	791.6	806.2	815.9	809.4
5°	799.7	803.0	842.1	861.5	861.5
7.5°	793.1	815.9	869.7	895.7	900.7
10°	785.1	827.3	890.9	925.1	933.3
12.5°	775.2	835.5	908.8	946.3	956.1
15°	762.3	837.2	920.2	960.9	970.7
17.5°	747.5	833.9	923.5	967.5	977.2
20°	729.6	827.3	921.9	965.8	977.2
22.5°	710.1	815.9	912.1	956.1	969.1
25°	687.3	799.7	897.4	939.8	951.2
27.5°	664.5	776.9	876.3	915.3	926.7
30°	636.9	752.4	848.6	886.0	894.2
32.5°	607.5	723.2	815.9	850.1	856.7
35°	576.5	690.5	778.5	806.2	812.7
37.5°	542.3	653.1	736.1	760.6	762.3
40°	509.8	615.6	692.2	711.8	710.1
42.5°	475.6	578.2	648.3	661.2	661.2
45°	439.7	539.1	604.2	610.7	605.9
47.5°	405.5	503.3	561.9	563.6	558.6
50°	371.3	467.4	522.9	518.0	511.5
52.5°	338.8	433.2	483.8	473.9	467.4
55°	307.8	403.9	447.9	434.9	428.3
57.5°	280.1	374.7	415.3	399.0	392.5
60°	254.1	346.9	382.7	364.8	358.3
62.5°	229.7	320.9	353.4	332.3	322.5
65°	206.9	296.4	325.7	299.7	288.3
67.5°	185.6	271.9	298.1	265.5	255.7
70°	164.5	247.6	267.1	232.9	223.1
72.5°	143.3	223.1	237.7	200.3	190.6
75°	123.7	198.7	202.0	169.3	161.3
77.5°	102.6	177.5	171.0	140.0	131.9
80°	81.5	149.9	136.8	110.8	105.8
82.5°	60.2	117.2	104.3	83.0	79.8
85°	39.1	84.7	71.6	55.3	53.8
87.5°	19.6	45.6	35.9	27.7	26.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)