

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: P183910

Luminaire Tested: **14SR-LD2-23-C-UNV-L850-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P183910  
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-LD2-23-C-UNV-L850-CD1-U  
Description: METALUX SKYRIDGE EDGELIT LED 1X4 TROFFER  
  
Light Source: EATON LED 5000K  
Ballast/Driver: OSRAM ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2543.0 lumens  
Efficiency: N/A  
Efficacy: 139.7 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

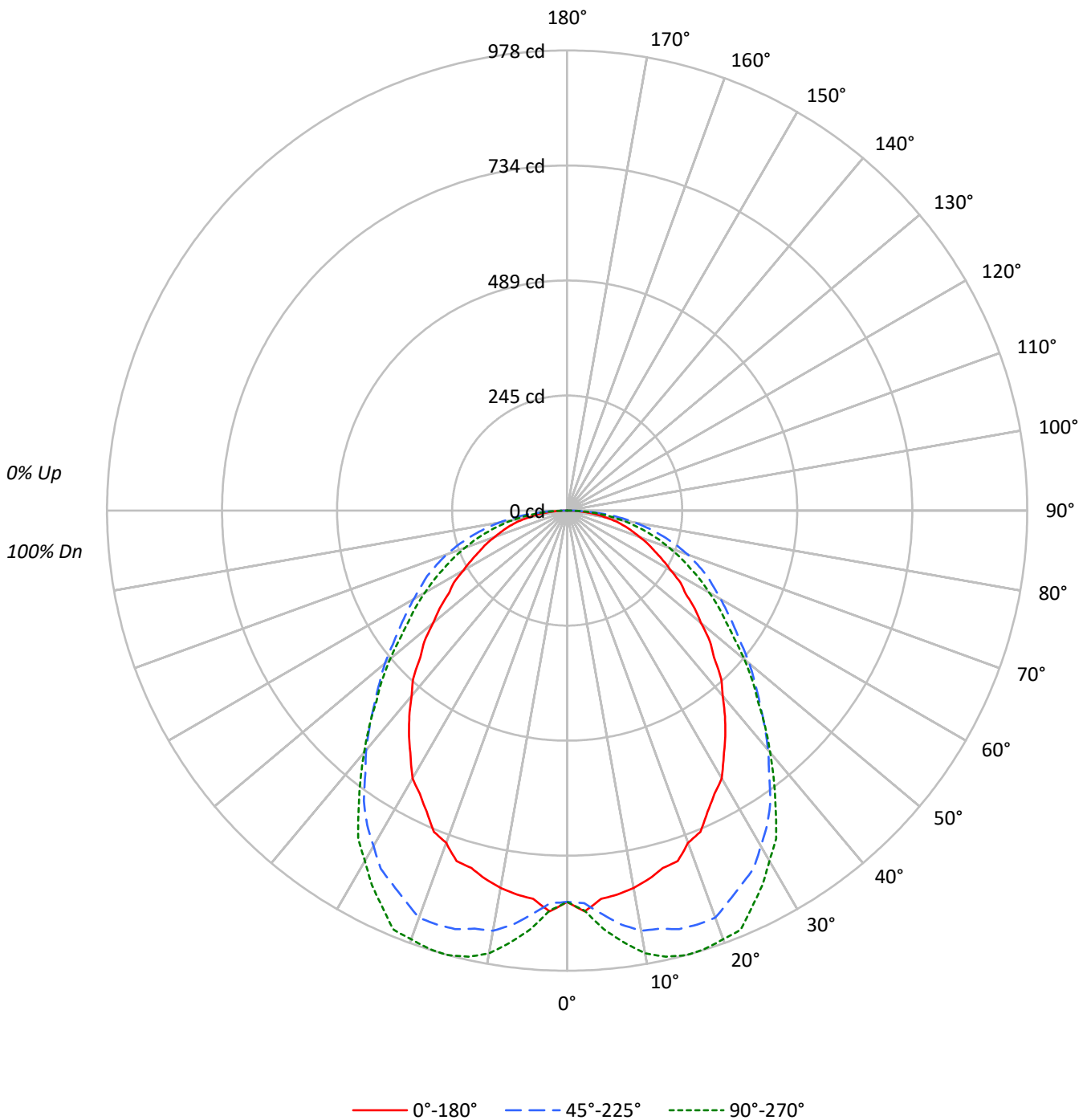
Input Watts (W): 18.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2238	2238	2238
5°	2237	2327	2412
10°	2225	2478	2611
15°	2191	2565	2725
20°	2152	2637	2776
25°	2097	2604	2760
30°	2043	2557	2671
35°	1925	2475	2538
40°	1807	2334	2358
45°	1679	2203	2183
50°	1555	2117	2058
55°	1440	2037	1931
60°	1370	2027	1877
65°	1310	2087	1832
70°	1290	2140	1811
75°	1305	2194	1813
80°	1271	2270	1838
85°	1238	2316	1831



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	83.8	3.3
10°-20°	257.4	10.1
20°-30°	396.3	15.6
30°-40°	453.7	17.8
40°-50°	428.9	16.9
50°-60°	364.2	14.3
60°-70°	289.6	11.4
70°-80°	196.4	7.7
80°-90°	72.8	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°	737.5	29.0
0°-40°	1191.2	46.8
0°-60°	1984.2	78.0
0°-90°	2543.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2543.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	832	832	832	832	832	
5°	828	846	861	891	893	79
15°	786	870	921	975	978	223
25°	706	825	877	924	929	326
35°	586	704	753	774	772	366
45°	441	546	579	586	574	343
55°	307	399	434	424	412	279
65°	206	295	328	300	288	206
75°	126	202	211	181	174	132
85°	40	85	75	61	59	44
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	831.8	831.8	831.8	831.8	831.8
2.5°	852.7	840.5	835.2	852.7	850.9
5°	828.3	845.7	861.4	891.0	892.8
7.5°	823.0	863.1	887.6	924.2	925.9
10°	814.3	866.6	906.7	950.3	955.6
12.5°	802.1	870.1	910.2	964.3	971.2
15°	786.4	870.1	920.7	974.7	978.2
17.5°	781.2	870.1	922.4	969.5	976.5
20°	751.5	861.4	920.7	962.5	969.5
22.5°	739.3	845.7	898.0	948.6	964.3
25°	706.2	824.8	877.1	924.2	929.4
27.5°	678.3	802.1	857.9	898.0	898.0
30°	657.4	774.2	823.0	861.4	859.7
32.5°	619.0	735.8	791.6	821.3	826.5
35°	585.9	704.5	753.3	774.2	772.5
37.5°	551.0	664.4	704.5	728.9	721.9
40°	514.4	624.2	664.4	680.0	671.3
42.5°	484.8	582.4	620.8	631.2	622.5
45°	441.2	545.8	578.9	585.9	573.7
47.5°	411.5	505.7	540.6	540.6	533.6
50°	371.4	467.3	505.7	495.2	491.7
52.5°	341.8	434.2	467.3	458.6	448.1
55°	306.9	399.3	434.2	423.7	411.5
57.5°	286.0	371.4	404.5	392.3	381.9
60°	254.6	343.5	376.6	360.9	348.7
62.5°	230.2	319.1	350.5	331.3	319.1
65°	205.8	294.7	327.8	299.9	287.7
67.5°	186.6	272.0	299.9	270.3	259.8
70°	163.9	245.9	272.0	240.6	230.2
72.5°	144.7	224.9	242.4	211.0	204.0
75°	125.5	202.3	211.0	181.3	174.4
77.5°	106.4	179.6	179.6	153.4	146.5
80°	82.0	153.4	146.5	123.8	118.6
82.5°	62.8	122.1	111.6	92.4	88.9
85°	40.1	85.4	75.0	61.0	59.3
87.5°	19.2	45.3	36.6	29.6	27.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)