

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: P183907

Luminaire Tested: **14SR-LD2-23-C-UNV-L830-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P183907  
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-L830-CD1-U  
Description: METALUX SKYRIDGE EDGELIT LED 1X4 TROFFER  
  
Light Source: EATON LED 3000K  
Ballast/Driver: OSRAM ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2222.3 lumens  
Efficiency: N/A  
Efficacy: 122.1 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

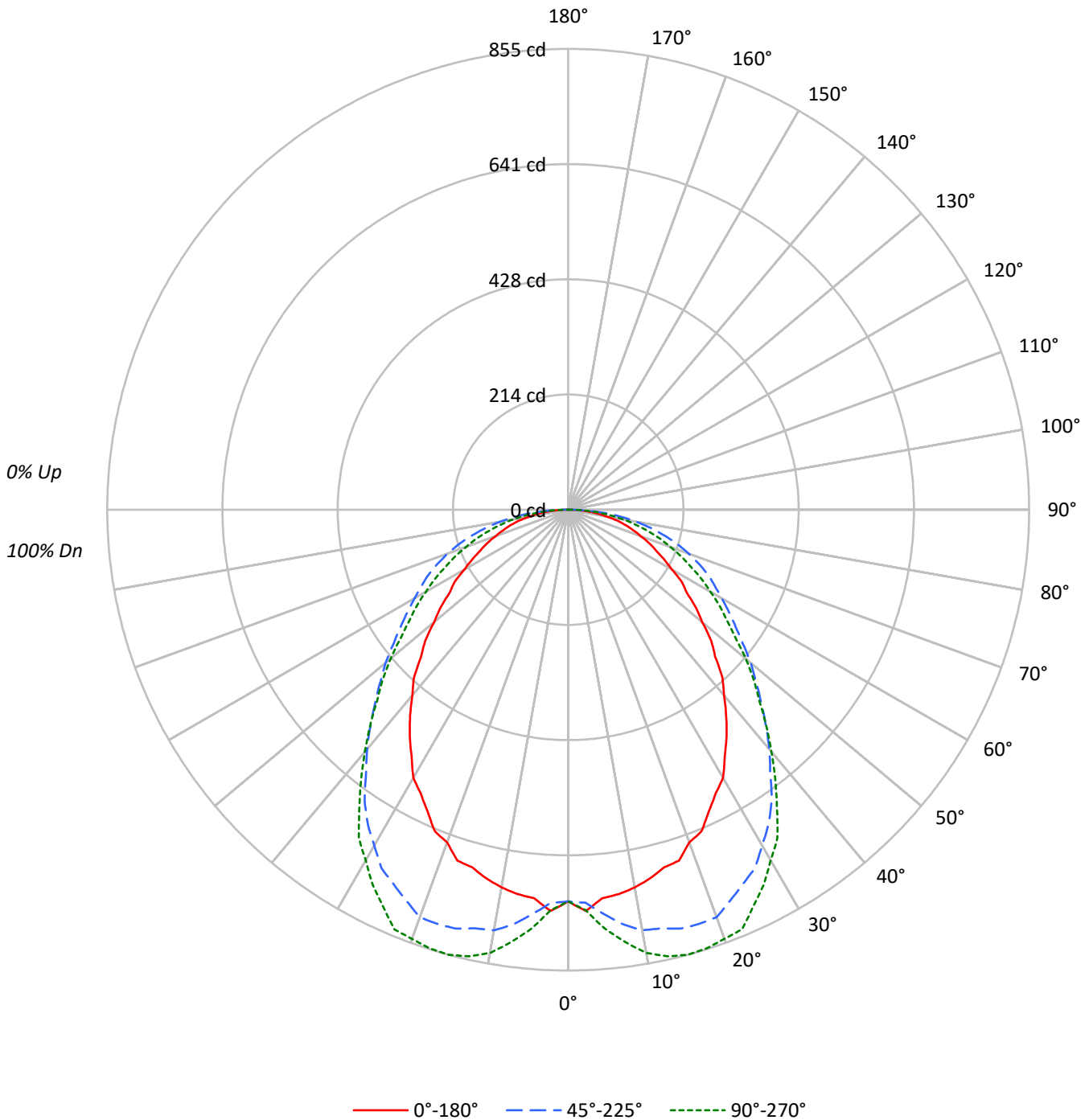
Input Watts (W): 18.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	1956	1956	1956
5°	1955	2034	2108
10°	1944	2165	2282
15°	1914	2242	2381
20°	1881	2304	2426
25°	1832	2276	2412
30°	1785	2235	2334
35°	1682	2163	2217
40°	1579	2040	2061
45°	1467	1925	1908
50°	1359	1850	1799
55°	1258	1780	1687
60°	1197	1771	1640
65°	1145	1824	1601
70°	1127	1870	1582
75°	1141	1917	1585
80°	1110	1984	1605
85°	1081	2022	1599



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	73.2	3.3
10°-20°	224.9	10.1
20°-30°	346.3	15.6
30°-40°	396.4	17.8
40°-50°	374.8	16.9
50°-60°	318.3	14.3
60°-70°	253.1	11.4
70°-80°	171.6	7.7
80°-90°	63.6	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°	644.5	29.0
0°-40°	1040.9	46.8
0°-60°	1734.0	78.0
0°-90°	2222.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2222.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	727	727	727	727	727	
5°	724	739	753	779	780	69
15°	687	760	805	852	855	195
25°	617	721	766	808	812	285
35°	512	616	658	677	675	320
45°	386	477	506	512	501	300
55°	268	349	379	370	360	244
65°	180	258	286	262	251	180
75°	110	177	184	158	152	115
85°	35	75	66	53	52	39
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	726.8	726.8	726.8	726.8	726.8
2.5°	745.1	734.5	729.9	745.1	743.6
5°	723.8	739.0	752.8	778.7	780.2
7.5°	719.2	754.3	775.6	807.6	809.1
10°	711.6	757.3	792.4	830.5	835.0
12.5°	700.9	760.4	795.4	842.7	848.7
15°	687.2	760.4	804.6	851.8	854.8
17.5°	682.7	760.4	806.1	847.2	853.3
20°	656.8	752.8	804.6	841.1	847.2
22.5°	646.1	739.0	784.8	828.9	842.7
25°	617.1	720.8	766.5	807.6	812.2
27.5°	592.8	700.9	749.7	784.8	784.8
30°	574.5	676.6	719.2	752.8	751.2
32.5°	540.9	643.0	691.8	717.7	722.3
35°	512.0	615.6	658.3	676.6	675.0
37.5°	481.5	580.6	615.6	636.9	630.8
40°	449.5	545.5	580.6	594.3	586.7
42.5°	423.6	508.9	542.5	551.6	544.0
45°	385.5	476.9	505.9	512.0	501.3
47.5°	359.6	441.9	472.4	472.4	466.3
50°	324.6	408.4	441.9	432.8	429.7
52.5°	298.7	379.4	408.4	400.8	391.6
55°	268.2	348.9	379.4	370.3	359.6
57.5°	249.9	324.6	353.5	342.9	333.7
60°	222.5	300.2	329.1	315.4	304.8
62.5°	201.1	278.9	306.3	289.5	278.9
65°	179.8	257.5	286.5	262.1	251.4
67.5°	163.0	237.7	262.1	236.2	227.0
70°	143.2	214.9	237.7	210.3	201.1
72.5°	126.5	196.6	211.8	184.4	178.3
75°	109.7	176.8	184.4	158.5	152.4
77.5°	93.0	157.0	157.0	134.1	128.0
80°	71.6	134.1	128.0	108.2	103.6
82.5°	54.9	106.7	97.5	80.8	77.7
85°	35.0	74.7	65.5	53.3	51.8
87.5°	16.8	39.6	32.0	25.9	24.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)