

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: P183952

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P183952  
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-LD2-23-S-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: 2215.5 lumens  
Efficiency: N/A  
Efficacy: 121.7 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

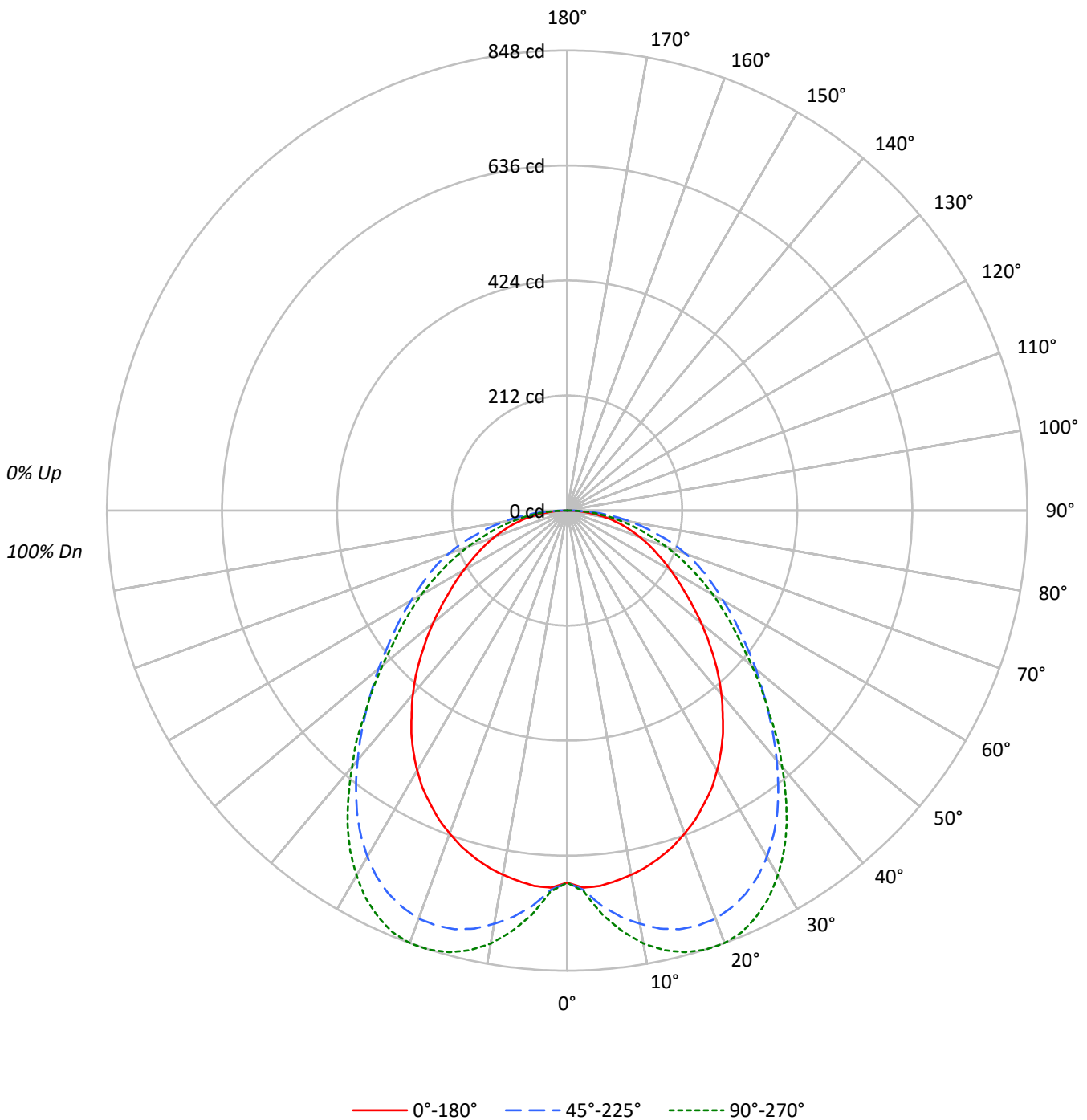
Input Watts (W): 18.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	1845	1845	1845
5°	1875	1974	2020
10°	1862	2113	2214
15°	1843	2225	2347
20°	1814	2292	2429
25°	1771	2313	2451
30°	1718	2289	2412
35°	1644	2220	2317
40°	1554	2111	2165
45°	1453	1996	2001
50°	1349	1900	1859
55°	1254	1824	1744
60°	1187	1788	1674
65°	1144	1800	1593
70°	1124	1825	1523
75°	1117	1823	1456
80°	1096	1841	1424
85°	1050	1920	1442



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	70.2	3.2
10°-20°	219.6	9.9
20°-30°	344.5	15.5
30°-40°	401.6	18.1
40°-50°	382.2	17.2
50°-60°	322.6	14.6
60°-70°	251.3	11.3
70°-80°	163.9	7.4
80°-90°	59.7	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°	634.2	28.6
0°-40°	1035.8	46.8
0°-60°	1740.6	78.6
0°-90°	2215.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2215.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	686	686	686	686	686	
5°	694	697	731	748	748	66
15°	662	727	799	834	843	186
25°	597	694	779	816	826	275
35°	500	599	676	700	705	312
45°	382	468	524	530	526	295
55°	267	351	389	378	372	240
65°	180	257	283	260	250	179
75°	107	172	175	147	140	113
85°	34	74	62	48	47	38
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	685.6	685.6	685.6	685.6	685.6
2.5°	695.5	687.1	699.8	708.2	702.6
5°	694.2	697.0	730.9	747.8	747.8
7.5°	688.4	708.2	754.9	777.5	781.8
10°	681.5	718.1	773.3	803.0	810.1
12.5°	672.9	725.2	788.9	821.4	829.9
15°	661.7	726.7	798.8	834.1	842.6
17.5°	648.9	723.9	801.6	839.8	848.2
20°	633.3	718.1	800.2	838.3	848.2
22.5°	616.4	708.2	791.7	829.9	841.1
25°	596.6	694.2	779.0	815.7	825.6
27.5°	576.8	674.4	760.6	794.5	804.4
30°	552.8	653.1	736.6	769.1	776.2
32.5°	527.3	627.7	708.2	737.9	743.7
35°	500.4	599.4	675.7	699.8	705.4
37.5°	470.7	566.9	639.0	660.2	661.7
40°	442.5	534.4	600.8	617.8	616.4
42.5°	412.8	501.9	562.7	574.0	574.0
45°	381.7	467.9	524.5	530.1	525.9
47.5°	352.0	436.9	487.7	489.2	484.9
50°	322.3	405.7	453.9	449.6	444.0
52.5°	294.1	376.0	419.9	411.4	405.7
55°	267.2	350.6	388.8	377.5	371.8
57.5°	243.1	325.2	360.5	346.4	340.7
60°	220.5	301.1	332.2	316.7	311.0
62.5°	199.4	278.5	306.8	288.4	279.9
65°	179.6	257.3	282.7	260.1	250.2
67.5°	161.1	236.0	258.8	230.4	222.0
70°	142.8	214.9	231.9	202.2	193.6
72.5°	124.4	193.6	206.4	173.9	165.4
75°	107.4	172.5	175.3	147.0	140.0
77.5°	89.1	154.1	148.4	121.6	114.5
80°	70.7	130.1	118.8	96.1	91.9
82.5°	52.3	101.8	90.5	72.1	69.3
85°	34.0	73.5	62.2	48.0	46.7
87.5°	17.0	39.6	31.1	24.1	22.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)