

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: P183953

Luminaire Tested: **14SR-LD2-23-S-UNV-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183953
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-L835-CD1-U
Description: METALUX SKYRIDGE EDGELIT LED 1X4 TROFFER

Light Source: EATON LED 3500K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2284.0 lumens
Efficiency: N/A
Efficacy: 125.5 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

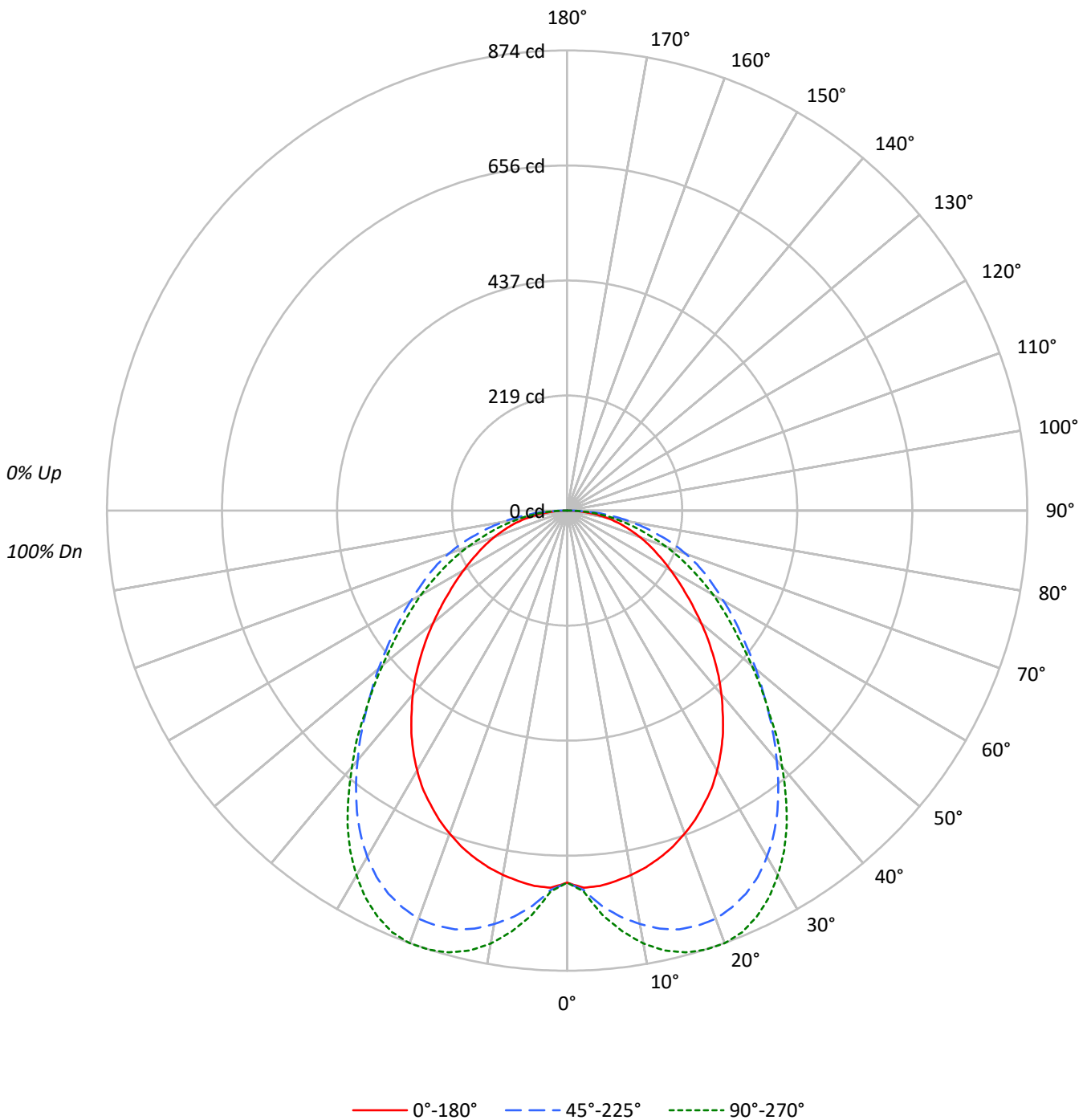
Input Watts (W): 18.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1902	1902	1902
5°	1933	2036	2082
10°	1920	2179	2282
15°	1900	2294	2420
20°	1870	2363	2504
25°	1826	2385	2527
30°	1771	2359	2486
35°	1695	2288	2389
40°	1603	2176	2232
45°	1498	2058	2063
50°	1391	1959	1916
55°	1293	1880	1798
60°	1223	1843	1726
65°	1179	1856	1642
70°	1158	1880	1570
75°	1151	1879	1500
80°	1130	1897	1468
85°	1081	1979	1485



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.3	3.2
10°-20°	226.3	9.9
20°-30°	355.1	15.5
30°-40°	414.1	18.1
40°-50°	394.0	17.2
50°-60°	332.6	14.6
60°-70°	259.1	11.3
70°-80°	169.0	7.4
80°-90°	61.5	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°	653.8	28.6
0°-40°	1067.8	46.8
0°-60°	1794.4	78.6
0°-90°	2284.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2284.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	707	707	707	707	707	
5°	716	718	754	771	771	68
15°	682	749	824	860	869	192
25°	615	716	803	841	851	283
35°	516	618	697	721	727	322
45°	394	482	541	546	542	304
55°	276	362	401	389	383	248
65°	185	265	292	268	258	184
75°	111	178	181	152	144	116
85°	35	76	64	50	48	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	706.8	706.8	706.8	706.8	706.8
2.5°	717.0	708.3	721.4	730.1	724.3
5°	715.6	718.5	753.6	770.9	770.9
7.5°	709.7	730.1	778.2	801.5	806.0
10°	702.5	740.3	797.3	827.9	835.2
12.5°	693.7	747.6	813.3	846.8	855.6
15°	682.1	749.1	823.5	859.9	868.7
17.5°	668.9	746.2	826.4	865.8	874.5
20°	652.9	740.3	825.0	864.3	874.5
22.5°	635.4	730.1	816.2	855.6	867.2
25°	615.0	715.6	803.1	841.0	851.2
27.5°	594.6	695.2	784.2	819.1	829.3
30°	569.9	673.3	759.3	792.9	800.2
32.5°	543.6	647.1	730.1	760.7	766.7
35°	515.9	617.9	696.6	721.4	727.2
37.5°	485.3	584.4	658.7	680.6	682.1
40°	456.2	550.9	619.4	636.9	635.4
42.5°	425.6	517.4	580.1	591.7	591.7
45°	393.5	482.4	540.7	546.5	542.2
47.5°	362.9	450.4	502.8	504.3	499.9
50°	332.3	418.3	467.9	463.5	457.7
52.5°	303.2	387.7	432.9	424.1	418.3
55°	275.5	361.5	400.8	389.2	383.3
57.5°	250.6	335.3	371.7	357.1	351.3
60°	227.3	310.5	342.5	326.5	320.7
62.5°	205.5	287.2	316.3	297.4	288.6
65°	185.1	265.3	291.5	268.1	257.9
67.5°	166.1	243.3	266.8	237.5	228.8
70°	147.2	221.5	239.0	208.4	199.6
72.5°	128.2	199.6	212.7	179.2	170.5
75°	110.7	177.8	180.7	151.5	144.3
77.5°	91.8	158.8	153.0	125.3	118.0
80°	72.9	134.1	122.4	99.1	94.7
82.5°	53.9	104.9	93.3	74.3	71.4
85°	35.0	75.8	64.1	49.5	48.1
87.5°	17.5	40.8	32.1	24.8	23.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)