

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: P183938

Luminaire Tested: **14SR-LD2-45-C-UNV-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183938
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-LD2-45-C-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: 4474.0 lumens
Efficiency: N/A
Efficacy: 118.0 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

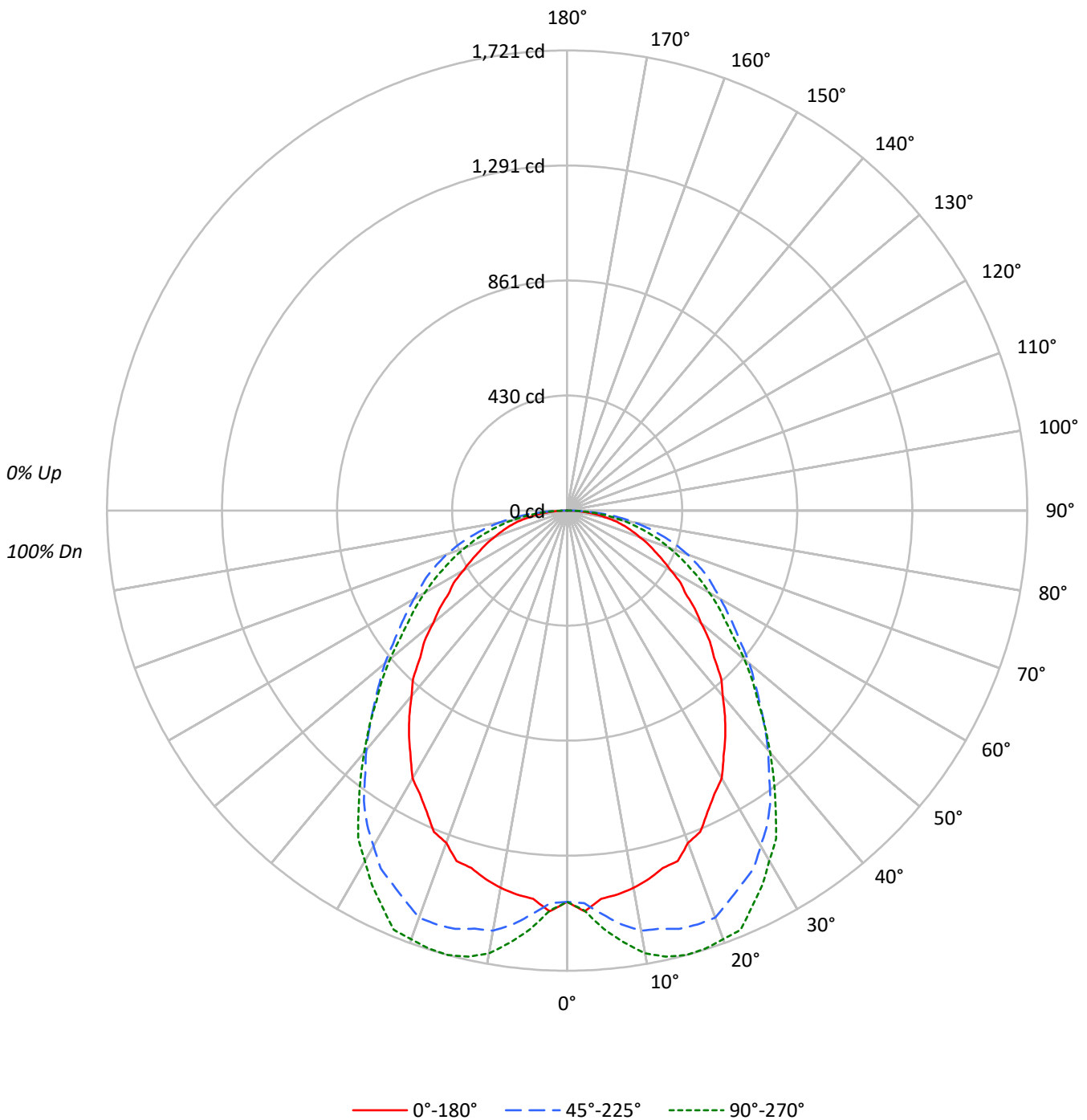
Input Watts (W): 37.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3938	3938	3938
5°	3936	4094	4243
10°	3915	4359	4594
15°	3855	4513	4795
20°	3786	4639	4885
25°	3689	4582	4855
30°	3594	4499	4699
35°	3386	4354	4464
40°	3179	4106	4149
45°	2954	3876	3841
50°	2735	3725	3622
55°	2533	3584	3397
60°	2411	3566	3302
65°	2305	3672	3223
70°	2269	3766	3186
75°	2297	3859	3190
80°	2235	3994	3233
85°	2180	4072	3220



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.4	3.3
10°-20°	452.8	10.1
20°-30°	697.3	15.6
30°-40°	798.1	17.8
40°-50°	754.5	16.9
50°-60°	640.8	14.3
60°-70°	509.6	11.4
70°-80°	345.5	7.7
80°-90°	128.1	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°	1297.5	29.0
0°-40°	2095.6	46.8
0°-60°	3490.9	78.0
0°-90°	4474.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4474.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1463	1463	1463	1463	1463	
5°	1457	1488	1516	1568	1571	139
15°	1384	1531	1620	1715	1721	392
25°	1242	1451	1543	1626	1635	573
35°	1031	1239	1325	1362	1359	644
45°	776	960	1018	1031	1009	604
55°	540	702	764	746	724	491
65°	362	518	577	528	506	362
75°	221	356	371	319	307	232
85°	71	150	132	107	104	78
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1463.3	1463.3	1463.3	1463.3	1463.3
2.5°	1500.1	1478.7	1469.5	1500.1	1497.1
5°	1457.2	1487.9	1515.5	1567.6	1570.7
7.5°	1448.0	1518.5	1561.5	1625.9	1629.0
10°	1432.7	1524.7	1595.2	1671.9	1681.1
12.5°	1411.2	1530.8	1601.4	1696.5	1708.8
15°	1383.6	1530.8	1619.8	1714.9	1721.0
17.5°	1374.4	1530.8	1622.9	1705.7	1718.0
20°	1322.2	1515.5	1619.8	1693.4	1705.7
22.5°	1300.7	1487.9	1579.9	1668.9	1696.5
25°	1242.4	1451.1	1543.1	1625.9	1635.1
27.5°	1193.4	1411.2	1509.3	1579.9	1579.9
30°	1156.6	1362.1	1448.0	1515.5	1512.4
32.5°	1089.1	1294.6	1392.8	1444.9	1454.1
35°	1030.8	1239.4	1325.3	1362.1	1359.0
37.5°	969.4	1168.8	1239.4	1282.3	1270.1
40°	905.0	1098.3	1168.8	1196.4	1181.1
42.5°	852.8	1024.6	1092.1	1110.5	1095.2
45°	776.1	960.2	1018.5	1030.8	1009.3
47.5°	724.0	889.7	951.0	951.0	938.7
50°	653.4	822.2	889.7	871.2	865.1
52.5°	601.3	763.9	822.2	806.8	788.4
55°	539.9	702.5	763.9	745.5	724.0
57.5°	503.1	653.4	711.7	690.2	671.8
60°	447.9	604.4	662.6	635.0	613.6
62.5°	404.9	561.4	616.6	582.9	561.4
65°	362.0	518.5	576.7	527.7	506.2
67.5°	328.3	478.6	527.7	475.5	457.1
70°	288.4	432.6	478.6	423.4	404.9
72.5°	254.6	395.7	426.4	371.2	358.9
75°	220.9	355.9	371.2	319.0	306.8
77.5°	187.1	316.0	316.0	270.0	257.7
80°	144.2	270.0	257.7	217.8	208.6
82.5°	110.4	214.7	196.3	162.6	156.5
85°	70.6	150.3	131.9	107.4	104.3
87.5°	33.7	79.8	64.4	52.2	49.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)