

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: P183939

Luminaire Tested: **14SR-LD2-45-C-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183939
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-L840-CD1-U
Description: METALUX SKYRIDGE EDGELIT LED 1X4 TROFFER

Light Source: EATON LED 4000K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4563.5 lumens
Efficiency: N/A
Efficacy: 120.4 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

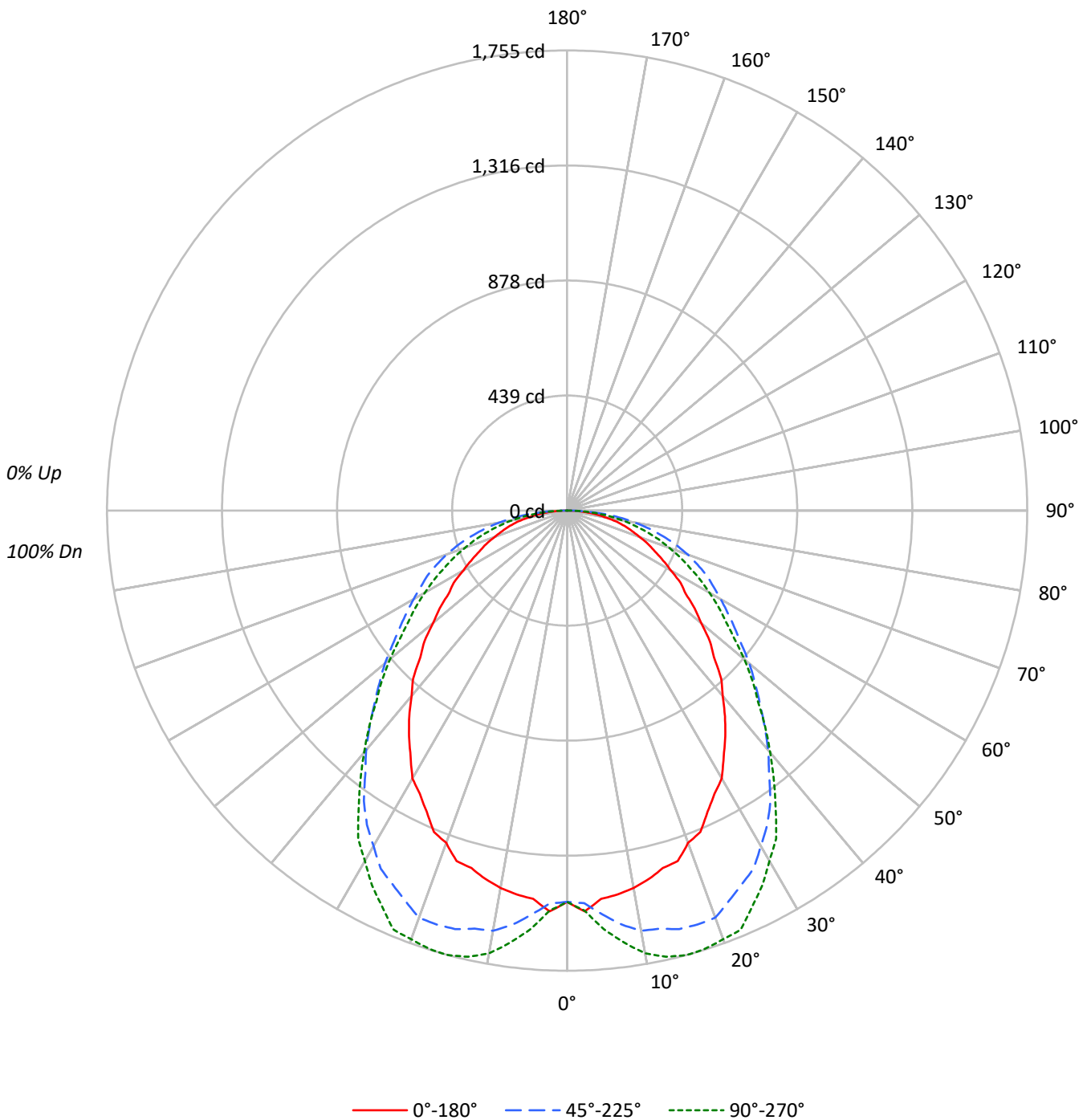
Input Watts (W): 37.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4017	4017	4017
5°	4015	4176	4328
10°	3993	4446	4686
15°	3931	4603	4890
20°	3862	4731	4982
25°	3763	4673	4952
30°	3666	4589	4794
35°	3454	4441	4554
40°	3243	4188	4232
45°	3013	3954	3918
50°	2790	3799	3694
55°	2584	3656	3465
60°	2459	3638	3368
65°	2351	3746	3287
70°	2314	3840	3249
75°	2342	3936	3253
80°	2280	4073	3298
85°	2223	4156	3285



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.4	3.3
10°-20°	461.9	10.1
20°-30°	711.2	15.6
30°-40°	814.1	17.8
40°-50°	769.6	16.9
50°-60°	653.6	14.3
60°-70°	519.7	11.4
70°-80°	352.4	7.7
80°-90°	130.7	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°	1323.5	29.0
0°-40°	2137.6	46.8
0°-60°	3560.7	78.0
0°-90°	4563.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4563.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1493	1493	1493	1493	1493	
5°	1486	1518	1546	1599	1602	142
15°	1411	1561	1652	1749	1755	400
25°	1267	1480	1574	1658	1668	585
35°	1051	1264	1352	1389	1386	657
45°	792	979	1039	1051	1030	616
55°	551	717	779	760	738	500
65°	369	529	588	538	516	369
75°	225	363	379	325	313	237
85°	72	153	135	110	106	80
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1492.6	1492.6	1492.6	1492.6	1492.6
2.5°	1530.1	1508.2	1498.9	1530.1	1527.0
5°	1486.3	1517.6	1545.8	1599.0	1602.1
7.5°	1476.9	1548.9	1592.7	1658.4	1661.6
10°	1461.3	1555.2	1627.1	1705.4	1714.8
12.5°	1439.4	1561.4	1633.4	1730.4	1742.9
15°	1411.2	1561.4	1652.2	1749.2	1755.4
17.5°	1401.8	1561.4	1655.3	1739.8	1752.3
20°	1348.7	1545.8	1652.2	1727.3	1739.8
22.5°	1326.8	1517.6	1611.5	1702.2	1730.4
25°	1267.3	1480.1	1574.0	1658.4	1667.8
27.5°	1217.2	1439.4	1539.5	1611.5	1611.5
30°	1179.7	1389.3	1476.9	1545.8	1542.7
32.5°	1110.8	1320.5	1420.6	1473.8	1483.2
35°	1051.4	1264.2	1351.8	1389.3	1386.2
37.5°	988.8	1192.2	1264.2	1308.0	1295.5
40°	923.1	1120.2	1192.2	1220.4	1204.7
42.5°	869.9	1045.1	1114.0	1132.7	1117.1
45°	791.7	979.4	1038.9	1051.4	1029.5
47.5°	738.5	907.4	970.0	970.0	957.5
50°	666.5	838.6	907.4	888.7	882.4
52.5°	613.3	779.2	838.6	823.0	804.2
55°	550.7	716.6	779.2	760.4	738.5
57.5°	513.2	666.5	726.0	704.1	685.3
60°	456.9	616.4	675.9	647.7	625.8
62.5°	413.0	572.6	629.0	594.5	572.6
65°	369.2	528.8	588.3	538.2	516.3
67.5°	334.8	488.1	538.2	485.0	466.2
70°	294.1	441.2	488.1	431.8	413.0
72.5°	259.7	403.7	434.9	378.6	366.1
75°	225.3	363.0	378.6	325.4	312.9
77.5°	190.9	322.3	322.3	275.4	262.8
80°	147.1	275.4	262.8	222.2	212.8
82.5°	112.6	219.0	200.3	165.8	159.6
85°	72.0	153.3	134.6	109.5	106.4
87.5°	34.4	81.4	65.7	53.2	50.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)