

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: P259014

Luminaire Tested: **14CZ-LD5-35-RDP-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259014
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35909)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-35-RDP-UNV-L92765-W2A1-U-3000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1931.0 lumens
Efficiency: N/A
Efficacy: 71.1 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

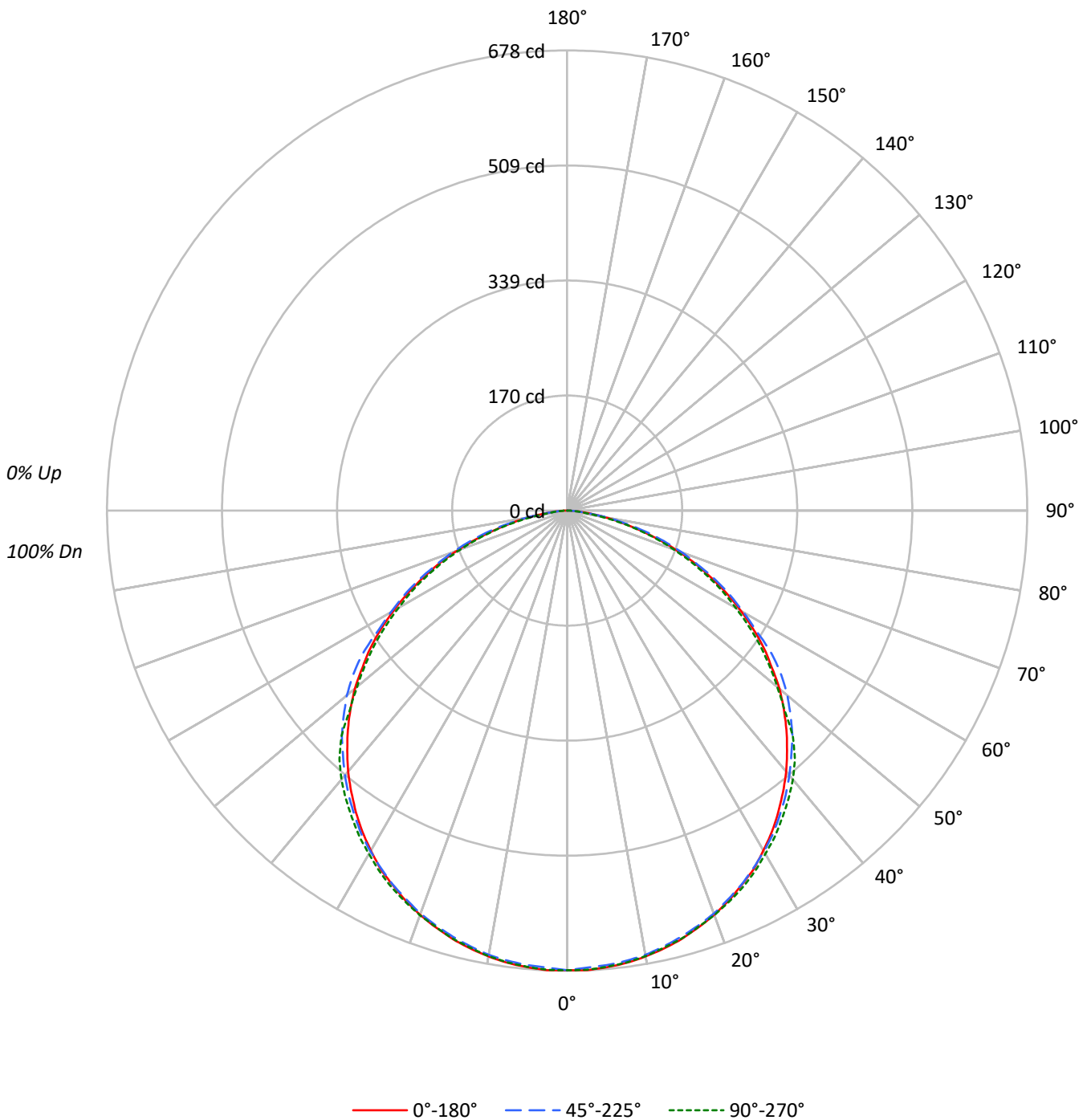
Input Watts (W): 27.156
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	51
5	76	63	54	48	74	62	54	47	60	53	47	58	51	46	56	50	46	44
6	70	57	48	42	68	56	47	41	54	47	41	52	46	41	51	45	40	38
7	65	52	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	34
8	61	47	38	33	59	46	38	33	45	38	32	44	37	32	43	36	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1822	1822	1822
5°	1824	1816	1823
10°	1823	1816	1821
15°	1820	1811	1818
20°	1815	1810	1817
25°	1807	1805	1818
30°	1797	1801	1815
35°	1782	1797	1815
40°	1764	1789	1817
45°	1739	1787	1789
50°	1710	1773	1692
55°	1662	1727	1630
60°	1592	1616	1545
65°	1491	1531	1450
70°	1356	1412	1312
75°	1132	1237	1112
80°	897	945	770
85°	584	506	448



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.1	3.3
10°-20°	184.1	9.5
20°-30°	281.1	14.6
30°-40°	342.7	17.7
40°-50°	358.8	18.6
50°-60°	319.3	16.5
60°-70°	235.5	12.2
70°-80°	121.7	6.3
80°-90°	23.6	1.2
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°	529.3	27.4
0°-40°	872.0	45.2
0°-60°	1550.1	80.3
0°-90°	1931.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1931.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	677	677	677	677	677	
5°	675	675	672	675	675	64
15°	653	653	650	653	653	184
25°	609	609	608	612	612	281
35°	542	543	547	553	553	339
45°	457	460	470	474	470	352
55°	354	362	368	352	347	316
65°	234	250	240	232	228	232
75°	109	120	119	110	107	118
85°	19	21	16	15	14	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	677.2	677.2	677.2	677.2	677.2
2.5°	677.8	677.2	674.1	677.2	677.2
5°	675.3	674.7	672.2	674.7	674.7
7.5°	672.2	671.5	669.0	671.5	671.5
10°	667.1	666.5	664.6	667.1	666.5
12.5°	660.8	660.8	657.7	660.8	659.6
15°	653.3	652.7	650.1	652.7	652.7
17.5°	643.9	643.2	641.3	644.5	643.2
20°	633.8	633.2	631.9	635.0	634.4
22.5°	621.8	621.8	619.9	623.7	623.7
25°	608.6	608.6	608.0	612.4	612.4
27.5°	595.4	594.1	594.1	598.5	599.2
30°	578.4	578.4	579.7	584.7	584.1
32.5°	561.4	562.0	564.6	569.0	569.6
35°	542.5	543.2	546.9	553.2	552.6
37.5°	522.4	524.3	528.7	535.6	535.6
40°	502.2	503.5	509.2	516.7	517.3
42.5°	479.6	482.7	489.0	497.8	496.6
45°	456.9	460.1	469.5	473.9	470.1
47.5°	433.0	436.8	446.2	446.9	434.3
50°	408.5	412.9	423.6	411.0	404.1
52.5°	380.1	388.3	397.8	380.1	375.7
55°	354.3	361.9	368.2	352.5	347.4
57.5°	325.4	335.5	331.1	323.5	317.2
60°	295.8	306.5	300.2	292.7	287.0
62.5°	265.6	277.6	271.3	263.7	258.7
65°	234.1	250.5	240.4	232.2	227.8
67.5°	204.5	220.3	208.3	202.0	197.6
70°	172.4	185.7	179.4	171.2	166.8
72.5°	141.0	151.1	149.2	140.4	137.2
75°	108.9	120.2	119.0	109.5	107.0
77.5°	81.8	92.5	88.7	81.2	78.0
80°	57.9	64.8	61.0	52.2	49.7
82.5°	35.2	40.9	34.6	29.6	27.1
85°	18.9	20.8	16.4	15.1	14.5
87.5°	6.9	6.9	6.9	6.3	6.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)