

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: P258970

Luminaire Tested: **14CZ-LD5-39-RDP-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258970
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-LD5-39-RDP-UNV-L82765-W2A1-U-3500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2555.0 lumens
Efficiency: N/A
Efficacy: 82.0 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

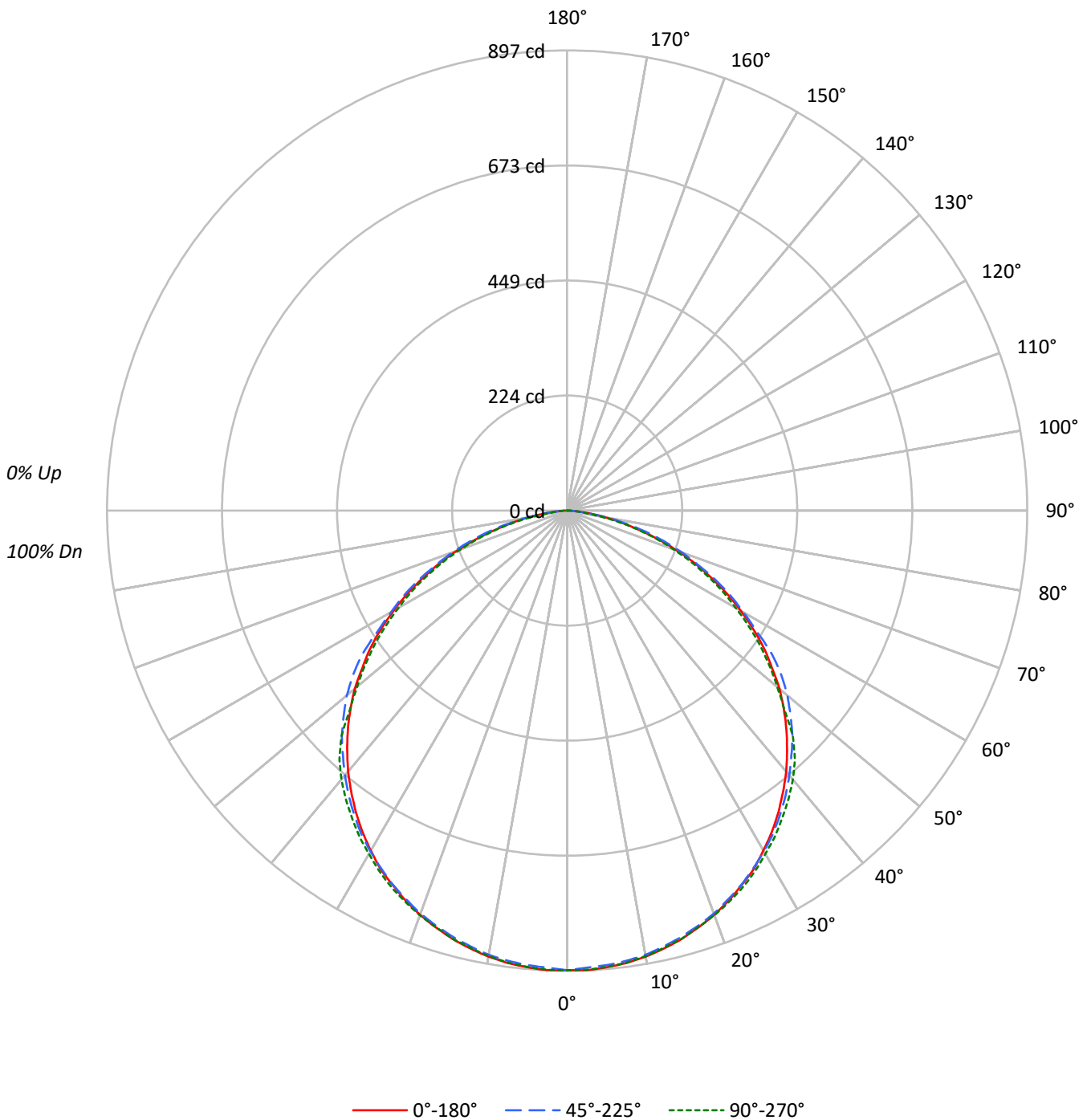
Input Watts (W): 31.155
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2411	2411	2411
5°	2414	2402	2411
10°	2412	2403	2410
15°	2408	2396	2406
20°	2401	2394	2404
25°	2391	2388	2406
30°	2378	2383	2401
35°	2358	2377	2402
40°	2334	2367	2405
45°	2301	2364	2367
50°	2263	2346	2238
55°	2199	2286	2157
60°	2106	2138	2044
65°	1973	2025	1920
70°	1795	1867	1736
75°	1498	1637	1472
80°	1187	1252	1020
85°	772	670	593



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.8	3.3
10°-20°	243.6	9.5
20°-30°	371.9	14.6
30°-40°	453.5	17.7
40°-50°	474.8	18.6
50°-60°	422.4	16.5
60°-70°	311.6	12.2
70°-80°	161.0	6.3
80°-90°	31.3	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°	700.4	27.4
0°-40°	1153.9	45.2
0°-60°	2051.0	80.3
0°-90°	2555.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2555.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	896	896	896	896	896	
5°	894	893	889	893	893	85
15°	864	864	860	864	864	244
25°	805	805	804	810	810	371
35°	718	719	724	732	731	449
45°	605	609	621	627	622	466
55°	469	479	487	466	460	418
65°	310	331	318	307	302	307
75°	144	159	157	145	142	156
85°	25	28	22	20	19	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	896.0	896.0	896.0	896.0	896.0
2.5°	896.9	896.0	891.9	896.0	896.0
5°	893.6	892.7	889.4	892.7	892.7
7.5°	889.4	888.6	885.2	888.6	888.6
10°	882.7	881.9	879.4	882.7	881.9
12.5°	874.4	874.4	870.2	874.4	872.7
15°	864.4	863.6	860.2	863.6	863.6
17.5°	851.9	851.1	848.6	852.7	851.1
20°	838.6	837.8	836.1	840.3	839.4
22.5°	822.8	822.8	820.3	825.3	825.3
25°	805.3	805.3	804.4	810.3	810.3
27.5°	787.8	786.1	786.1	792.0	792.8
30°	765.3	765.3	767.0	773.6	772.8
32.5°	742.8	743.7	747.0	752.8	753.6
35°	717.8	718.7	723.7	732.0	731.2
37.5°	691.2	693.7	699.5	708.7	708.7
40°	664.5	666.2	673.7	683.7	684.5
42.5°	634.6	638.7	647.1	658.7	657.0
45°	604.6	608.7	621.2	627.1	622.1
47.5°	572.9	577.9	590.4	591.3	574.6
50°	540.5	546.3	560.4	543.8	534.6
52.5°	503.0	513.8	526.3	503.0	497.2
55°	468.8	478.8	487.2	466.3	459.7
57.5°	430.5	443.9	438.0	428.0	419.7
60°	391.4	405.6	397.2	387.2	379.7
62.5°	351.4	367.2	358.9	348.9	342.3
65°	309.8	331.4	318.1	307.3	301.5
67.5°	270.6	291.5	275.6	267.3	261.5
70°	228.2	245.7	237.3	226.5	220.7
72.5°	186.5	199.9	197.4	185.7	181.5
75°	144.1	159.1	157.4	144.9	141.6
77.5°	108.3	122.4	117.4	107.4	103.3
80°	76.6	85.8	80.8	69.1	65.8
82.5°	46.6	54.1	45.8	39.1	35.8
85°	25.0	27.5	21.7	20.0	19.2
87.5°	9.2	9.2	9.2	8.3	8.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)