

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: P258774

Luminaire Tested: **14CZ-LD5-25-S-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258774
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35112)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-25-S-UNV-L82765-W2A1-U-3000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2368.0 lumens
Efficiency: N/A
Efficacy: 130.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

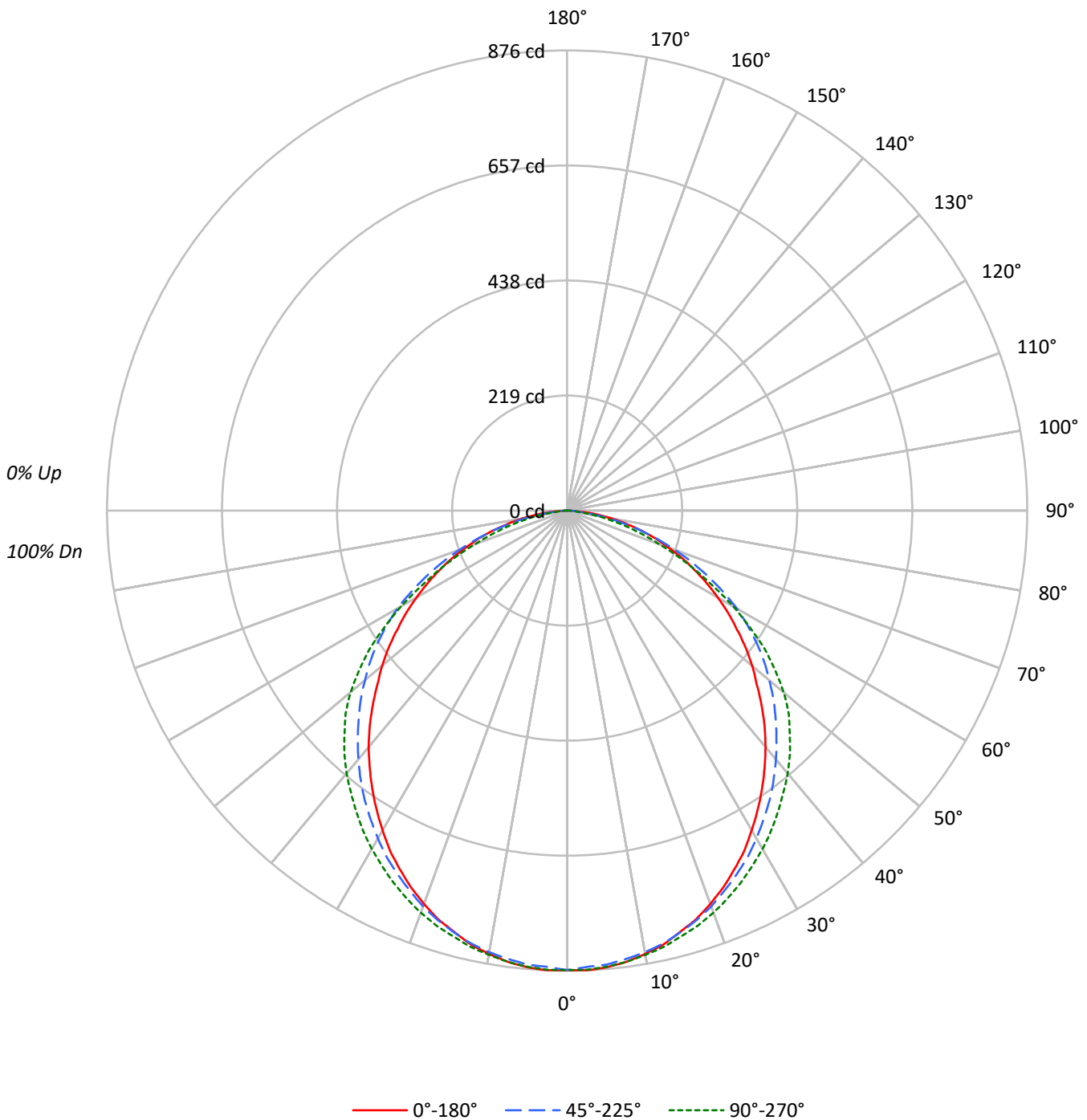
Input Watts (W): 18.135
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	100	97	106	102	98	95	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
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°	2354	2354	2354
5°	2357	2343	2354
10°	2341	2332	2347
15°	2313	2316	2337
20°	2281	2296	2333
25°	2237	2268	2322
30°	2183	2239	2312
35°	2125	2208	2298
40°	2064	2172	2295
45°	1992	2136	2281
50°	1926	2103	2253
55°	1851	2069	2153
60°	1783	2010	1965
65°	1706	1881	1727
70°	1611	1710	1461
75°	1503	1481	1207
80°	1325	1145	883
85°	1044	553	488



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.7	3.5
10°-20°	235.5	9.9
20°-30°	353.4	14.9
30°-40°	421.3	17.8
40°-50°	434.0	18.3
50°-60°	386.7	16.3
60°-70°	278.7	11.8
70°-80°	145.7	6.2
80°-90°	30.1	1.3
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°	671.5	28.4
0°-40°	1092.8	46.1
0°-60°	1913.5	80.8
0°-90°	2368.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2368.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	875	875	875	875	875	
5°	873	870	867	873	872	83
15°	830	832	832	840	839	234
25°	753	758	764	779	782	347
35°	647	655	672	694	700	404
45°	523	535	561	593	599	404
55°	395	407	441	461	459	354
65°	268	278	295	282	271	265
75°	145	152	142	124	116	153
85°	34	30	18	16	16	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	874.7	874.7	874.7	874.7	874.7
2.5°	875.8	873.7	869.5	874.7	874.7
5°	872.6	870.5	867.4	872.6	871.6
7.5°	866.3	864.2	861.0	867.4	866.3
10°	856.8	855.7	853.6	860.0	858.9
12.5°	846.3	845.2	844.1	850.5	850.5
15°	830.4	831.5	831.5	839.9	838.9
17.5°	815.7	816.7	817.8	828.3	828.3
20°	796.7	797.7	801.9	813.5	814.6
22.5°	776.6	777.7	782.9	796.7	798.8
25°	753.4	757.6	763.9	778.7	781.9
27.5°	730.2	733.3	743.9	760.8	762.9
30°	702.7	709.1	720.7	739.7	743.9
32.5°	675.3	682.7	696.4	717.5	722.8
35°	646.8	655.3	672.1	694.3	699.6
37.5°	617.3	624.7	645.8	669.0	676.4
40°	587.7	595.1	618.3	644.7	653.2
42.5°	556.1	566.6	589.8	619.4	627.8
45°	523.4	535.0	561.4	593.0	599.3
47.5°	489.6	502.3	532.9	564.5	571.9
50°	460.1	471.7	502.3	532.9	538.1
52.5°	428.4	439.0	472.7	498.0	499.1
55°	394.6	407.3	441.1	461.1	459.0
57.5°	364.0	374.6	407.3	417.8	411.5
60°	331.3	340.8	373.5	374.6	365.1
62.5°	299.7	309.2	334.5	327.1	315.5
65°	268.0	277.5	295.4	281.7	271.2
67.5°	237.4	245.9	256.4	238.5	227.9
70°	204.7	216.3	217.4	196.3	185.7
72.5°	176.2	182.5	180.4	160.4	150.9
75°	144.6	151.9	142.4	123.5	116.1
77.5°	115.0	120.3	107.6	89.7	84.4
80°	85.5	88.6	73.9	60.1	57.0
82.5°	58.0	58.0	42.2	32.7	29.5
85°	33.8	29.5	17.9	15.8	15.8
87.5°	11.6	7.4	7.4	7.4	7.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)