

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: P258892

Luminaire Tested: **14CZ-LD5-39-RDP-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258892
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-L83050-W2A1-U-3000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2472.0 lumens
Efficiency: N/A
Efficacy: 80.1 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

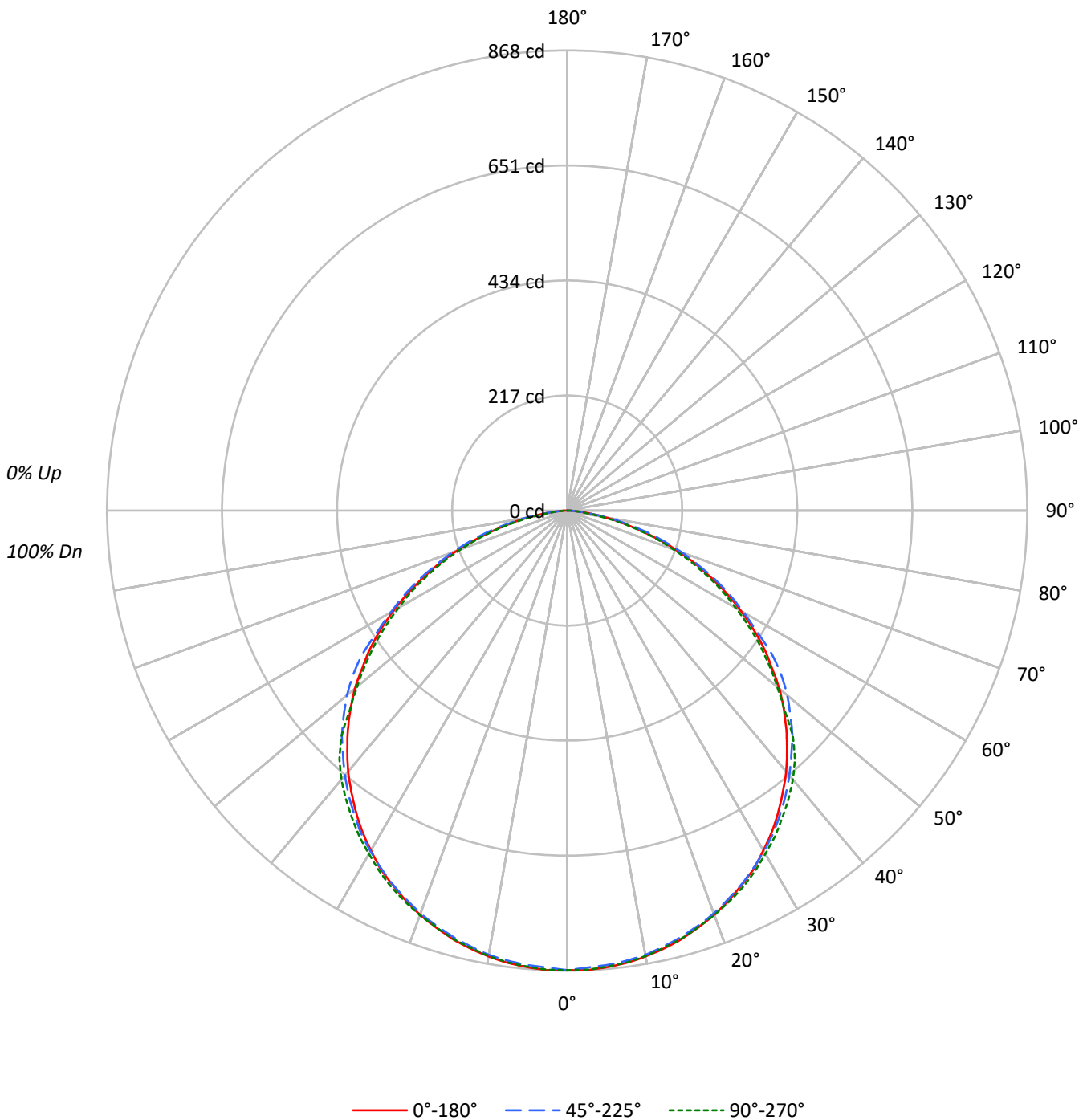
Input Watts (W): 30.876
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84					84			
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70					70			
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	61	59					59			
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	51					51			
5	76	63	54	48	74	62	54	47	60	53	47	58	51	46	56	50	46	44					44			
6	70	57	48	42	68	56	47	41	54	47	41	52	46	41	51	45	40	38					38			
7	65	52	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	34					34			
8	61	47	38	33	59	46	38	33	45	38	32	44	37	32	43	36	32	30					30			
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27					27			
10	53	40	32	27	52	39	32	26	38	31	26	37	31	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2333	2333	2333
5°	2335	2324	2333
10°	2334	2325	2331
15°	2330	2319	2328
20°	2323	2316	2326
25°	2313	2311	2328
30°	2301	2306	2323
35°	2281	2300	2324
40°	2259	2290	2327
45°	2226	2288	2291
50°	2189	2270	2166
55°	2128	2211	2086
60°	2038	2068	1977
65°	1908	1960	1857
70°	1737	1806	1680
75°	1449	1583	1424
80°	1148	1212	987
85°	747	645	571



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.1	3.3
10°-20°	235.7	9.5
20°-30°	359.8	14.6
30°-40°	438.7	17.7
40°-50°	459.4	18.6
50°-60°	408.7	16.5
60°-70°	301.5	12.2
70°-80°	155.8	6.3
80°-90°	30.3	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°	677.6	27.4
0°-40°	1116.4	45.2
0°-60°	1984.4	80.3
0°-90°	2472.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2472.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	867	867	867	867	867	
5°	864	864	860	864	864	82
15°	836	836	832	836	836	236
25°	779	779	778	784	784	359
35°	694	695	700	708	707	434
45°	585	589	601	607	602	451
55°	454	463	471	451	445	404
65°	300	321	308	297	292	297
75°	139	154	152	140	137	151
85°	24	27	21	19	18	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	866.9	866.9	866.9	866.9	866.9
2.5°	867.7	866.9	862.9	866.9	866.9
5°	864.5	863.7	860.5	863.7	863.7
7.5°	860.5	859.7	856.5	859.7	859.7
10°	854.0	853.2	850.8	854.0	853.2
12.5°	846.0	846.0	842.0	846.0	844.4
15°	836.3	835.5	832.3	835.5	835.5
17.5°	824.2	823.4	821.0	825.0	823.4
20°	811.3	810.5	808.9	813.0	812.2
22.5°	796.0	796.0	793.6	798.5	798.5
25°	779.1	779.1	778.3	784.0	784.0
27.5°	762.2	760.6	760.6	766.2	767.0
30°	740.4	740.4	742.1	748.5	747.7
32.5°	718.7	719.5	722.7	728.4	729.2
35°	694.5	695.3	700.2	708.2	707.4
37.5°	668.7	671.2	676.8	685.7	685.7
40°	643.0	644.6	651.8	661.5	662.3
42.5°	613.9	618.0	626.0	637.3	635.7
45°	584.9	589.0	601.1	606.7	601.9
47.5°	554.3	559.2	571.2	572.1	555.9
50°	522.9	528.5	542.2	526.1	517.3
52.5°	486.6	497.1	509.2	486.6	481.0
55°	453.6	463.3	471.3	451.2	444.7
57.5°	416.6	429.4	423.8	414.1	406.1
60°	378.7	392.4	384.3	374.7	367.4
62.5°	340.0	355.3	347.3	337.6	331.1
65°	299.7	320.7	307.8	297.3	291.7
67.5°	261.9	282.0	266.7	258.6	253.0
70°	220.8	237.7	229.6	219.2	213.5
72.5°	180.5	193.4	191.0	179.7	175.6
75°	139.4	153.9	152.3	140.2	137.0
77.5°	104.7	118.4	113.6	103.9	99.9
80°	74.1	83.0	78.2	66.9	63.7
82.5°	45.1	52.4	44.3	37.9	34.6
85°	24.2	26.6	20.9	19.3	18.5
87.5°	8.9	8.9	8.9	8.1	8.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)