

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: P259032

Luminaire Tested: **14CZ-LD5-44-RDP-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P259032  
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-LD5-44-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: 2383.0 lumens  
Efficiency: N/A  
Efficacy: 67.6 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

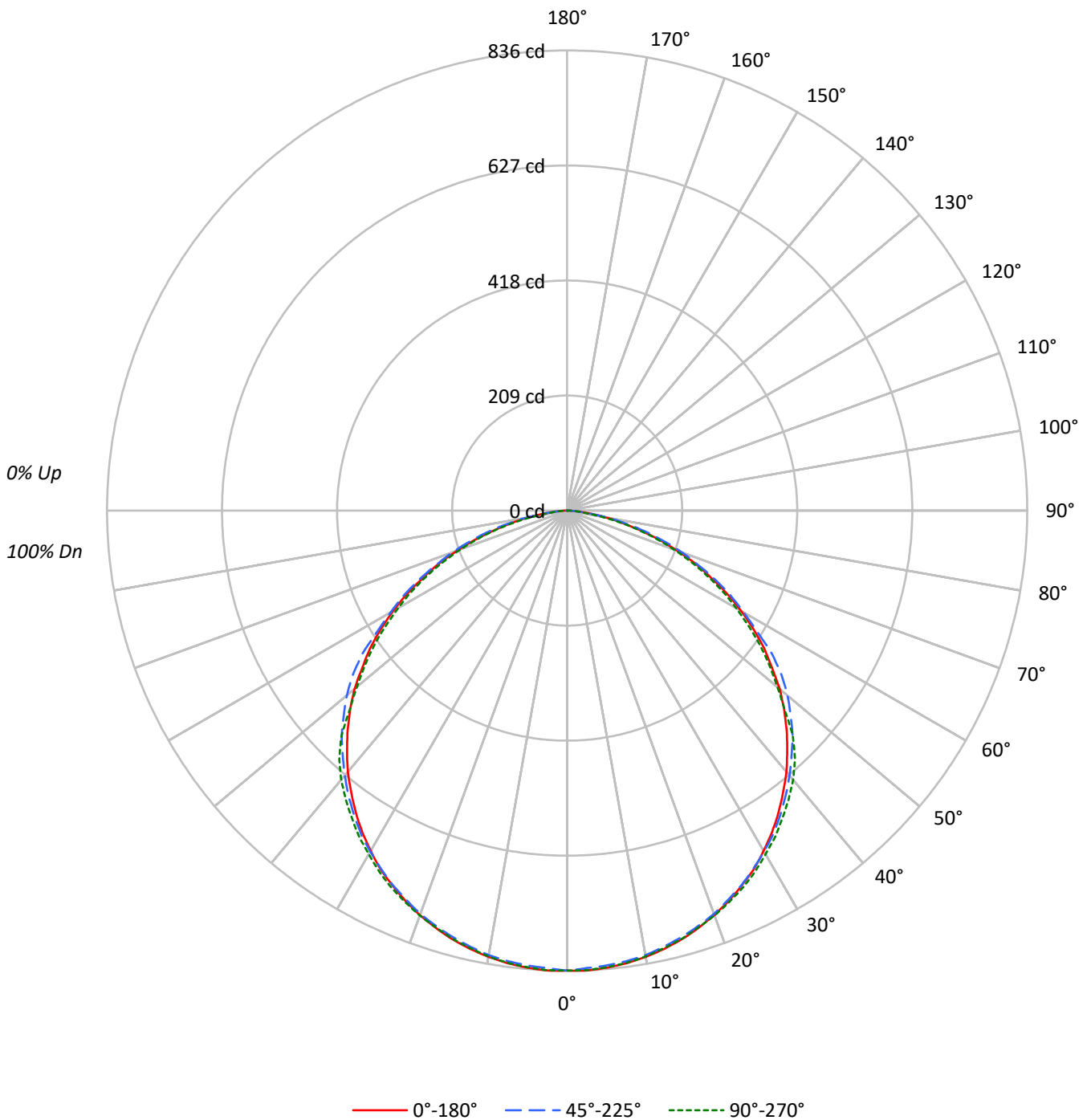
Input Watts (W): 35.247  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2249	2249	2249
5°	2251	2241	2249
10°	2250	2241	2247
15°	2246	2235	2244
20°	2240	2233	2242
25°	2230	2228	2244
30°	2218	2223	2240
35°	2199	2217	2240
40°	2177	2207	2243
45°	2146	2205	2208
50°	2110	2188	2087
55°	2052	2132	2011
60°	1964	1994	1906
65°	1840	1889	1791
70°	1674	1742	1619
75°	1397	1526	1372
80°	1108	1167	951
85°	719	624	553



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	79.1	3.3
10°-20°	227.2	9.5
20°-30°	346.9	14.6
30°-40°	422.9	17.7
40°-50°	442.8	18.6
50°-60°	394.0	16.5
60°-70°	290.7	12.2
70°-80°	150.2	6.3
80°-90°	29.2	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°	653.2	27.4
0°-40°	1076.2	45.2
0°-60°	1913.0	80.3
0°-90°	2383.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2383.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	836	836	836	836	836	
5°	833	833	830	833	833	79
15°	806	805	802	805	805	228
25°	751	751	750	756	756	346
35°	670	670	675	683	682	419
45°	564	568	579	585	580	435
55°	437	447	454	435	429	390
65°	289	309	297	287	281	286
75°	134	148	147	135	132	145
85°	23	26	20	19	18	30
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	835.7	835.7	835.7	835.7	835.7
2.5°	836.5	835.7	831.8	835.7	835.7
5°	833.4	832.6	829.5	832.6	832.6
7.5°	829.5	828.7	825.6	828.7	828.7
10°	823.3	822.5	820.2	823.3	822.5
12.5°	815.5	815.5	811.6	815.5	814.0
15°	806.2	805.4	802.3	805.4	805.4
17.5°	794.6	793.8	791.5	795.3	793.8
20°	782.1	781.4	779.8	783.7	782.9
22.5°	767.4	767.4	765.0	769.7	769.7
25°	751.1	751.1	750.3	755.7	755.7
27.5°	734.8	733.2	733.2	738.6	739.4
30°	713.8	713.8	715.3	721.6	720.8
32.5°	692.8	693.6	696.7	702.1	702.9
35°	669.5	670.3	675.0	682.7	681.9
37.5°	644.7	647.0	652.4	661.0	661.0
40°	619.8	621.4	628.3	637.7	638.4
42.5°	591.8	595.7	603.5	614.4	612.8
45°	563.9	567.8	579.4	584.9	580.2
47.5°	534.4	539.0	550.7	551.5	535.9
50°	504.1	509.5	522.7	507.2	498.6
52.5°	469.1	479.2	490.9	469.1	463.7
55°	437.3	446.6	454.4	435.0	428.7
57.5°	401.6	414.0	408.5	399.2	391.5
60°	365.0	378.3	370.5	361.2	354.2
62.5°	327.8	342.5	334.8	325.4	319.2
65°	288.9	309.1	296.7	286.6	281.2
67.5°	252.4	271.8	257.1	249.3	243.9
70°	212.8	229.1	221.4	211.3	205.8
72.5°	174.0	186.4	184.1	173.2	169.3
75°	134.4	148.3	146.8	135.1	132.0
77.5°	101.0	114.2	109.5	100.2	96.3
80°	71.5	80.0	75.3	64.5	61.4
82.5°	43.5	50.5	42.7	36.5	33.4
85°	23.3	25.6	20.2	18.6	17.9
87.5°	8.5	8.5	8.5	7.8	7.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)