

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: P258967

Luminaire Tested: **14CZ-LD5-35-RDP-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P258967  
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-L82765-W2A1-U-6500K  
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (168) 80 CRI LEDS TUNED AT 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2478.0 lumens  
Efficiency: N/A  
Efficacy: 86.5 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

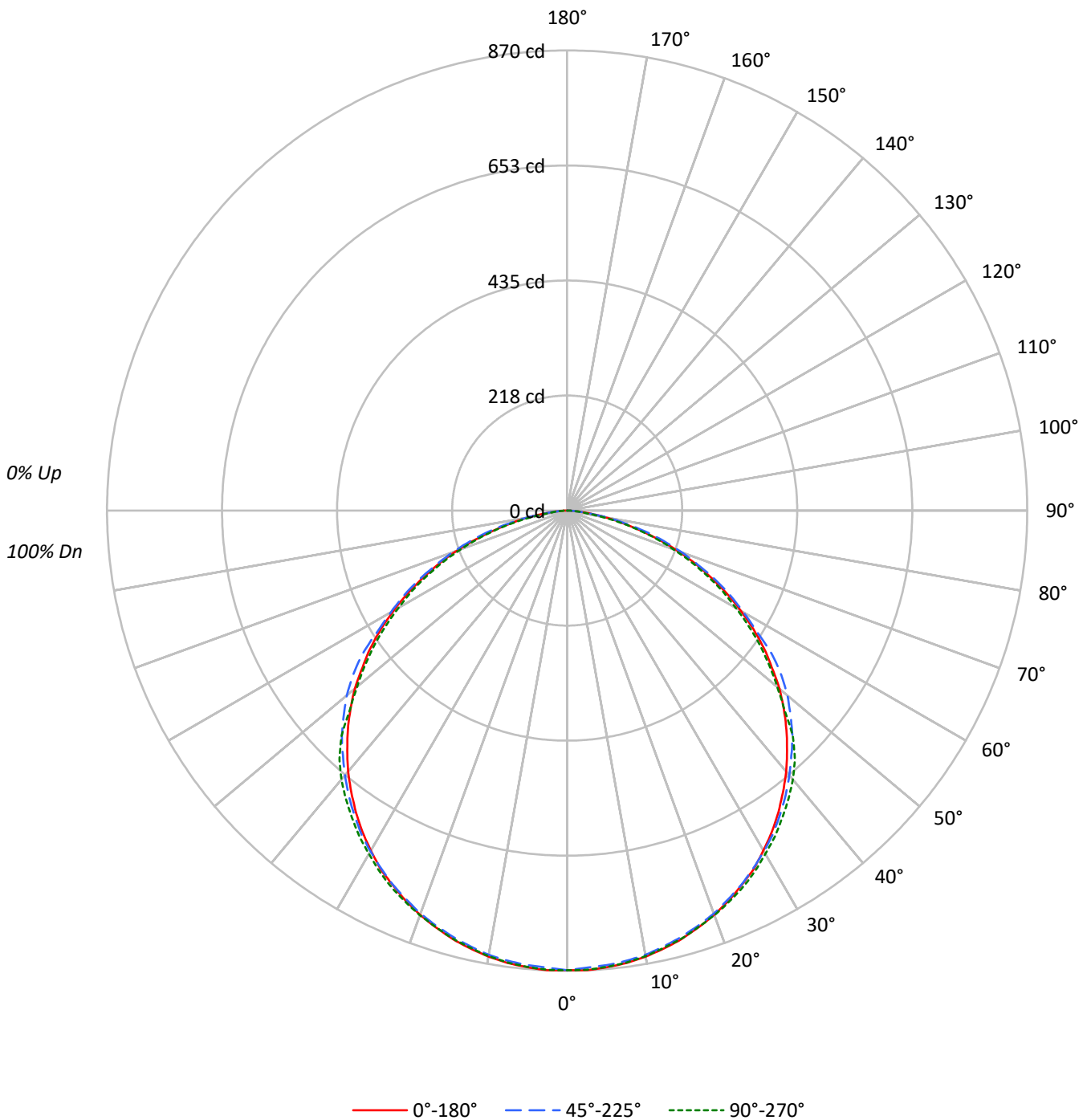
Input Watts (W): 28.644  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2338	2338	2338
5°	2341	2330	2339
10°	2339	2331	2337
15°	2336	2324	2333
20°	2329	2322	2331
25°	2319	2317	2333
30°	2306	2312	2329
35°	2287	2306	2329
40°	2264	2295	2332
45°	2232	2293	2296
50°	2195	2276	2171
55°	2133	2217	2092
60°	2043	2074	1982
65°	1913	1964	1862
70°	1741	1811	1684
75°	1452	1587	1428
80°	1151	1213	989
85°	747	648	574



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	82.3	3.3
10°-20°	236.3	9.5
20°-30°	360.7	14.6
30°-40°	439.8	17.7
40°-50°	460.5	18.6
50°-60°	409.7	16.5
60°-70°	302.2	12.2
70°-80°	156.2	6.3
80°-90°	30.4	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°	679.3	27.4
0°-40°	1119.1	45.2
0°-60°	1989.2	80.3
0°-90°	2478.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2478.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	869	869	869	869	869	
5°	867	866	863	866	866	82
15°	838	838	834	838	838	237
25°	781	781	780	786	786	360
35°	696	697	702	710	709	435
45°	586	590	602	608	603	452
55°	455	464	472	452	446	405
65°	300	321	308	298	292	298
75°	140	154	153	140	137	151
85°	24	27	21	19	19	31
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	869.0	869.0	869.0	869.0	869.0
2.5°	869.9	869.0	865.0	869.0	869.0
5°	866.6	865.8	862.6	865.8	865.8
7.5°	862.6	861.8	858.5	861.8	861.8
10°	856.1	855.3	852.9	856.1	855.3
12.5°	848.0	848.0	844.0	848.0	846.4
15°	838.4	837.5	834.3	837.5	837.5
17.5°	826.2	825.4	823.0	827.0	825.4
20°	813.3	812.5	810.9	814.9	814.1
22.5°	798.0	798.0	795.5	800.4	800.4
25°	781.0	781.0	780.2	785.9	785.9
27.5°	764.0	762.4	762.4	768.1	768.9
30°	742.2	742.2	743.9	750.3	749.5
32.5°	720.4	721.2	724.5	730.1	730.9
35°	696.2	697.0	701.9	709.9	709.1
37.5°	670.4	672.8	678.4	687.3	687.3
40°	644.5	646.1	653.4	663.1	663.9
42.5°	615.4	619.5	627.6	638.9	637.2
45°	586.4	590.4	602.5	608.2	603.3
47.5°	555.7	560.5	572.6	573.4	557.3
50°	524.2	529.8	543.6	527.4	518.5
52.5°	487.8	498.3	510.4	487.8	482.2
55°	454.7	464.4	472.5	452.3	445.8
57.5°	417.6	430.5	424.8	415.1	407.1
60°	379.6	393.3	385.3	375.6	368.3
62.5°	340.8	356.2	348.1	338.4	331.9
65°	300.5	321.4	308.5	298.0	292.4
67.5°	262.5	282.7	267.3	259.3	253.6
70°	221.3	238.3	230.2	219.7	214.0
72.5°	180.9	193.8	191.4	180.1	176.1
75°	139.7	154.3	152.6	140.5	137.3
77.5°	105.0	118.7	113.9	104.2	100.2
80°	74.3	83.2	78.3	67.0	63.8
82.5°	45.2	52.5	44.4	38.0	34.7
85°	24.2	26.7	21.0	19.4	18.6
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)