

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: P258834

Luminaire Tested: **14CZ-LD5-25-S-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P258834  
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-L92765-W2A1-U-5700K  
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS  
Light Source: (168) 90 CRI LEDS TUNED AT 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2365.0 lumens  
Efficiency: N/A  
Efficacy: 125.9 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

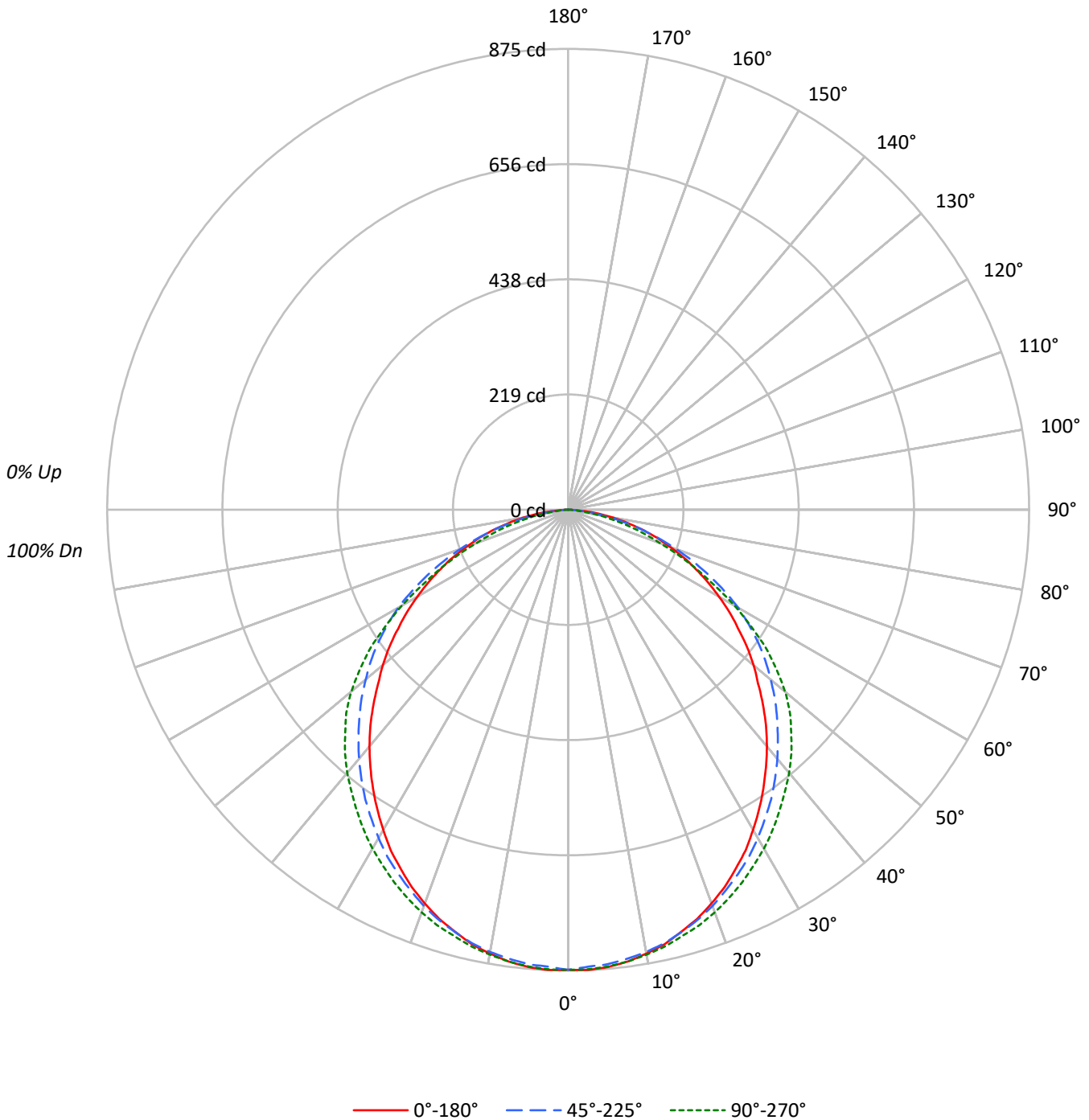
Input Watts (W): 18.786  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2351	2351	2351
5°	2354	2340	2351
10°	2338	2330	2344
15°	2311	2313	2334
20°	2278	2294	2330
25°	2234	2265	2319
30°	2181	2237	2309
35°	2122	2205	2295
40°	2062	2169	2291
45°	1989	2133	2278
50°	1924	2100	2250
55°	1849	2067	2151
60°	1781	2008	1962
65°	1705	1879	1724
70°	1608	1708	1459
75°	1501	1480	1205
80°	1323	1144	882
85°	1041	553	488



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	82.5	3.5
10°-20°	235.2	9.9
20°-30°	352.9	14.9
30°-40°	420.8	17.8
40°-50°	433.4	18.3
50°-60°	386.2	16.3
60°-70°	278.3	11.8
70°-80°	145.6	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°	670.7	28.4
0°-40°	1091.4	46.1
0°-60°	1911.0	80.8
0°-90°	2365.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2365.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	874	874	874	874	874	
5°	872	869	866	872	870	83
15°	829	830	830	839	838	234
25°	752	757	763	778	781	347
35°	646	654	671	693	699	404
45°	523	534	561	592	599	403
55°	394	407	440	460	458	353
65°	268	277	295	281	271	265
75°	144	152	142	123	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°	873.6	873.6	873.6	873.6	873.6
2.5°	874.7	872.6	868.4	873.6	873.6
5°	871.5	869.4	866.3	871.5	870.5
7.5°	865.2	863.1	859.9	866.3	865.2
10°	855.7	854.7	852.6	858.9	857.8
12.5°	845.2	844.1	843.1	849.4	849.4
15°	829.4	830.4	830.4	838.9	837.8
17.5°	814.6	815.7	816.7	827.3	827.3
20°	795.6	796.7	800.9	812.5	813.6
22.5°	775.6	776.7	781.9	795.6	797.8
25°	752.4	756.7	763.0	777.7	780.9
27.5°	729.3	732.4	743.0	759.8	761.9
30°	701.9	708.2	719.8	738.7	743.0
32.5°	674.5	681.8	695.5	716.6	721.9
35°	646.0	654.4	671.3	693.4	698.7
37.5°	616.5	623.9	644.9	668.1	675.5
40°	587.0	594.4	617.5	643.9	652.3
42.5°	555.4	565.9	589.1	618.6	627.0
45°	522.7	534.3	560.6	592.3	598.6
47.5°	489.0	501.6	532.2	563.8	571.2
50°	459.5	471.1	501.6	532.2	537.5
52.5°	427.9	438.4	472.1	497.4	498.5
55°	394.1	406.8	440.5	460.5	458.4
57.5°	363.6	374.1	406.8	417.3	411.0
60°	330.9	340.4	373.1	374.1	364.6
62.5°	299.3	308.8	334.1	326.7	315.1
65°	267.7	277.2	295.1	281.4	270.8
67.5°	237.1	245.5	256.1	238.2	227.6
70°	204.4	216.0	217.1	196.0	185.5
72.5°	176.0	182.3	180.2	160.2	150.7
75°	144.4	151.8	142.3	123.3	115.9
77.5°	114.9	120.1	107.5	89.6	84.3
80°	85.4	88.5	73.8	60.1	56.9
82.5°	58.0	58.0	42.2	32.7	29.5
85°	33.7	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)