

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: P259153

Luminaire Tested: **14CZ-LD5-44-SQP-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P259153  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35908)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14CZ-LD5-44-SQP-UNV-L82765-W2A1-U-6500K  
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER  
WITH SQP LENS  
Light Source: (168) 80 CRI LEDS TUNED AT 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2940.0 lumens  
Efficiency: N/A  
Efficacy: 79.0 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

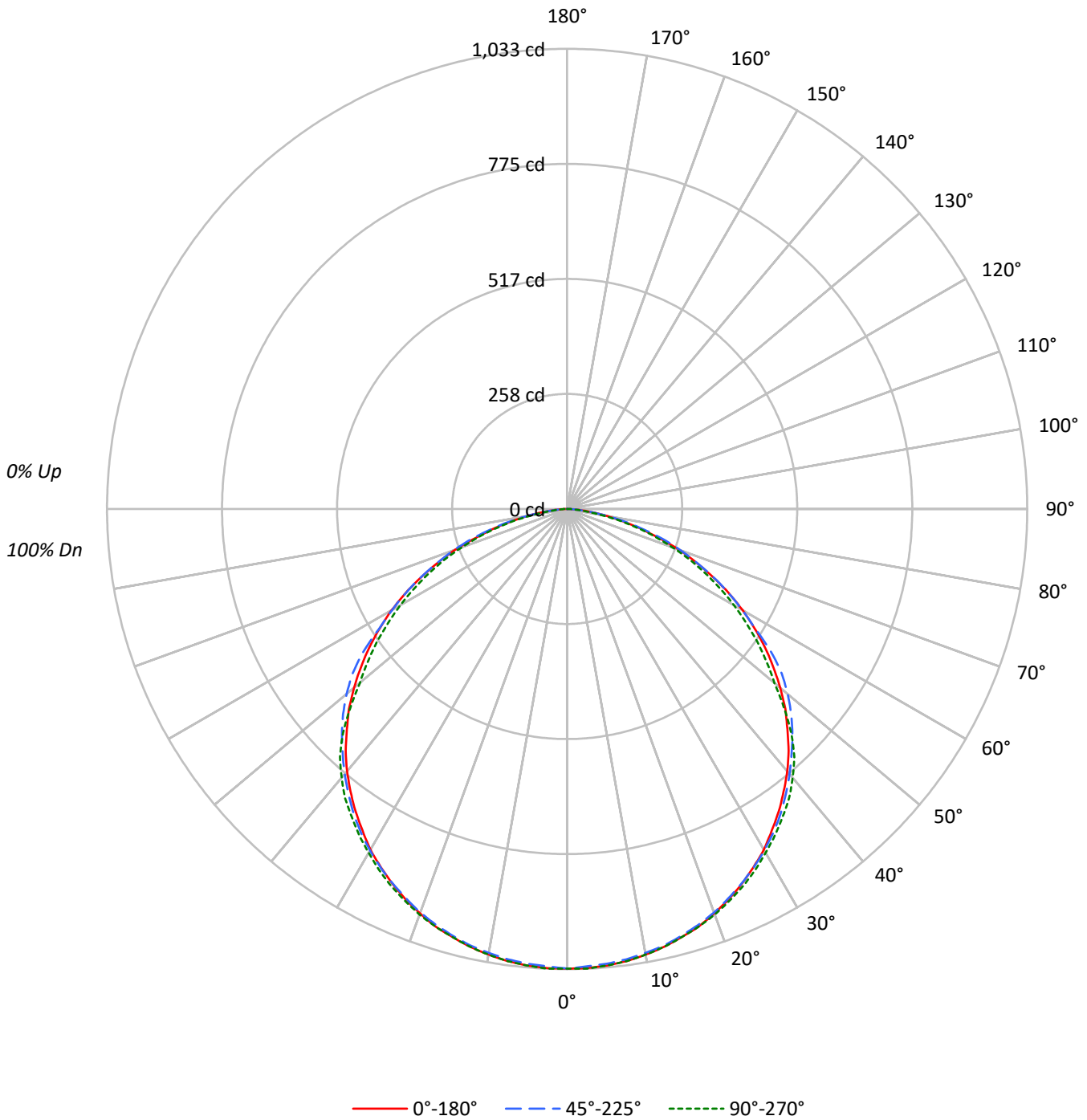
Input Watts (W): 37.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	62	59
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	50	46	44
6	70	57	48	42	68	56	48	41	54	47	41	52	46	41	51	45	40	38
7	65	52	43	37	63	51	42	37	49	42	36	48	41	36	46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	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	27	38	31	26	37	31	26	36	30	26	24

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2776	2776	2776
5°	2779	2768	2779
10°	2776	2765	2776
15°	2772	2763	2772
20°	2766	2761	2775
25°	2756	2753	2773
30°	2745	2751	2770
35°	2722	2745	2771
40°	2701	2729	2767
45°	2661	2721	2710
50°	2614	2706	2543
55°	2546	2621	2448
60°	2449	2444	2331
65°	2295	2308	2181
70°	2108	2131	1975
75°	1771	1854	1687
80°	1404	1435	1189
85°	923	800	676



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	97.7	3.3
10°-20°	280.8	9.6
20°-30°	428.8	14.6
30°-40°	523.2	17.8
40°-50°	547.1	18.6
50°-60°	484.3	16.5
60°-70°	356.7	12.1
70°-80°	184.7	6.3
80°-90°	36.8	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°	807.3	27.5
0°-40°	1330.5	45.3
0°-60°	2361.9	80.3
0°-90°	2940.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2940.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1032	1032	1032	1032	1032	
5°	1029	1029	1025	1029	1029	98
15°	995	995	992	996	995	281
25°	928	928	927	933	934	428
35°	828	830	836	844	844	518
45°	699	705	715	721	712	540
55°	543	554	559	530	522	484
65°	360	382	362	348	343	357
75°	170	182	178	167	162	182
85°	30	32	26	23	22	39
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1031.7	1031.7	1031.7	1031.7	1031.7
2.5°	1031.7	1031.7	1027.7	1031.7	1032.7
5°	1028.7	1028.7	1024.7	1028.7	1028.7
7.5°	1023.7	1022.7	1019.7	1023.7	1023.7
10°	1015.8	1015.8	1011.8	1016.8	1015.8
12.5°	1006.8	1005.8	1003.8	1007.8	1006.8
15°	994.9	994.9	991.9	995.8	994.9
17.5°	982.9	981.9	978.9	982.9	982.9
20°	966.0	965.0	964.0	968.0	969.0
22.5°	948.0	947.1	946.1	952.0	952.0
25°	928.1	928.1	927.1	933.1	934.1
27.5°	906.2	906.2	907.2	915.2	914.2
30°	883.3	883.3	885.3	891.3	891.3
32.5°	855.4	857.4	861.4	868.4	868.4
35°	828.5	830.5	835.5	843.5	843.5
37.5°	798.7	801.7	806.6	816.6	818.6
40°	768.8	770.8	776.8	787.7	787.7
42.5°	735.9	737.9	745.9	756.8	754.9
45°	699.1	705.1	715.0	721.0	712.0
47.5°	664.2	668.2	682.2	675.2	660.2
50°	624.4	632.4	646.3	621.4	607.5
52.5°	583.6	592.5	607.5	572.6	564.6
55°	542.7	553.7	558.7	529.8	521.8
57.5°	498.9	510.9	500.9	484.0	476.0
60°	455.1	469.0	454.1	438.2	433.2
62.5°	409.3	425.2	408.3	394.4	387.4
65°	360.5	382.4	362.5	348.5	342.6
67.5°	312.7	335.6	314.7	302.7	298.8
70°	267.9	280.8	270.9	258.9	251.0
72.5°	214.1	227.1	225.1	212.1	207.1
75°	170.3	182.2	178.3	167.3	162.3
77.5°	126.5	139.4	135.4	122.5	120.5
80°	90.6	99.6	92.6	80.7	76.7
82.5°	56.8	63.7	54.8	45.8	43.8
85°	29.9	31.9	25.9	22.9	21.9
87.5°	10.0	11.0	11.0	10.0	10.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)