

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: P259152

Luminaire Tested: **14CZ-LD5-44-SQP-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259152
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-5700K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2933.0 lumens
Efficiency: N/A
Efficacy: 80.0 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

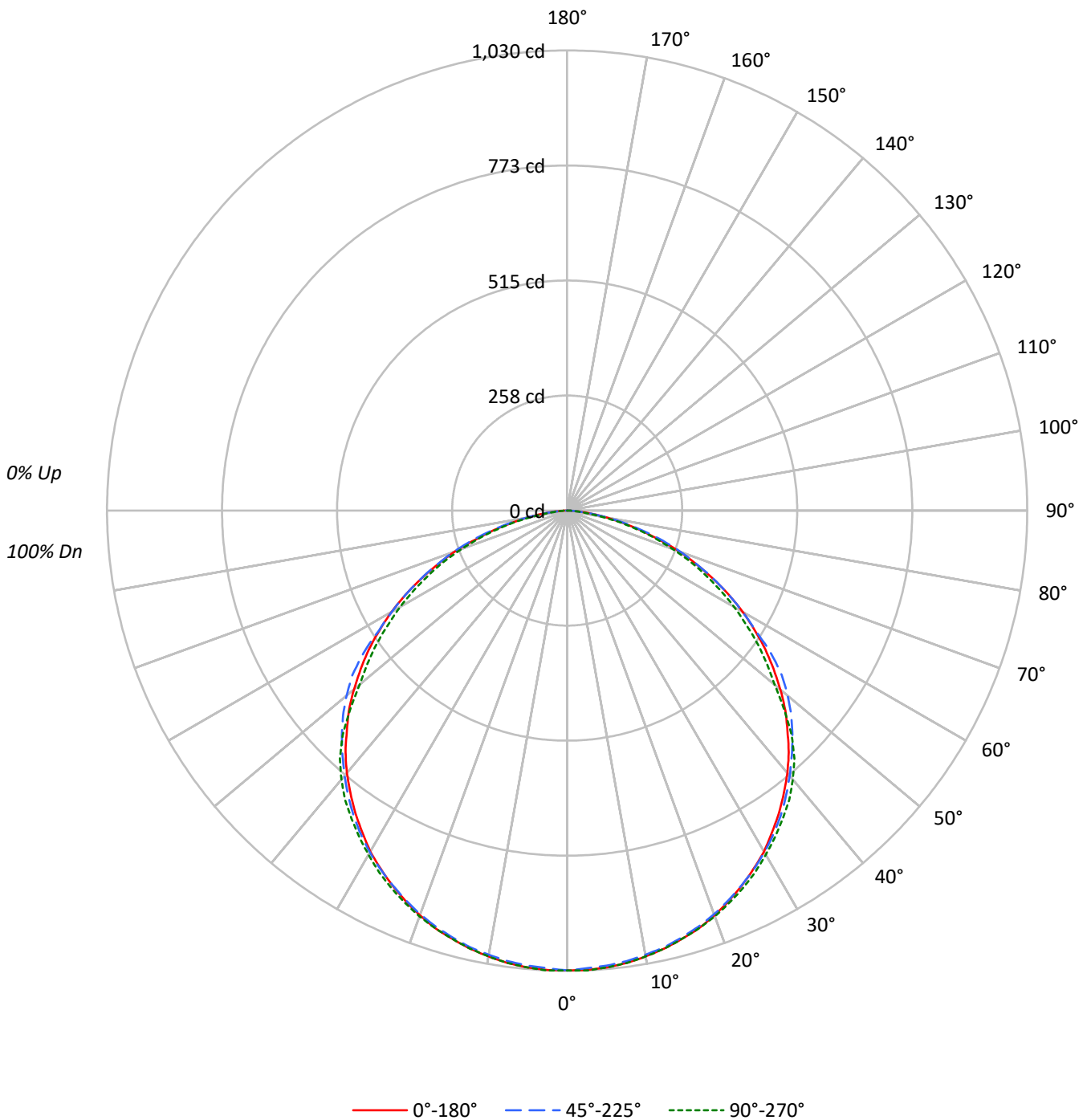
Input Watts (W): 36.642
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2770	2770	2770
5°	2772	2761	2772
10°	2769	2758	2769
15°	2765	2757	2765
20°	2760	2754	2768
25°	2749	2746	2767
30°	2738	2744	2763
35°	2715	2738	2764
40°	2694	2722	2760
45°	2654	2715	2703
50°	2608	2699	2537
55°	2540	2615	2442
60°	2443	2438	2326
65°	2290	2302	2176
70°	2102	2126	1970
75°	1766	1849	1683
80°	1401	1432	1185
85°	920	797	676



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.5	3.3
10°-20°	280.2	9.6
20°-30°	427.8	14.6
30°-40°	521.9	17.8
40°-50°	545.8	18.6
50°-60°	483.2	16.5
60°-70°	355.8	12.1
70°-80°	184.2	6.3
80°-90°	36.7	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°	805.4	27.5
0°-40°	1327.3	45.3
0°-60°	2356.3	80.3
0°-90°	2933.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2933.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1029	1029	1029	1029	1029	
5°	1026	1026	1022	1026	1026	98
15°	992	992	990	994	992	280
25°	926	926	925	931	932	427
35°	827	829	834	842	842	517
45°	697	703	713	719	710	538
55°	541	552	557	528	521	483
65°	360	382	362	348	342	356
75°	170	182	178	167	162	181
85°	30	32	26	23	22	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1029.2	1029.2	1029.2	1029.2	1029.2
2.5°	1029.2	1029.2	1025.3	1029.2	1030.2
5°	1026.3	1026.3	1022.3	1026.3	1026.3
7.5°	1021.3	1020.3	1017.3	1021.3	1021.3
10°	1013.3	1013.3	1009.4	1014.3	1013.3
12.5°	1004.4	1003.4	1001.4	1005.4	1004.4
15°	992.5	992.5	989.5	993.5	992.5
17.5°	980.6	979.6	976.6	980.6	980.6
20°	963.7	962.7	961.7	965.7	966.7
22.5°	945.8	944.8	943.8	949.8	949.8
25°	925.9	925.9	924.9	930.9	931.9
27.5°	904.1	904.1	905.1	913.0	912.0
30°	881.2	881.2	883.2	889.2	889.2
32.5°	853.4	855.4	859.4	866.3	866.3
35°	826.6	828.6	833.5	841.5	841.5
37.5°	796.8	799.7	804.7	814.7	816.6
40°	767.0	769.0	774.9	785.8	785.8
42.5°	734.2	736.2	744.1	755.0	753.1
45°	697.4	703.4	713.3	719.3	710.3
47.5°	662.6	666.6	680.5	673.6	658.7
50°	622.9	630.9	644.8	619.9	606.0
52.5°	582.2	591.1	606.0	571.2	563.3
55°	541.4	552.4	557.3	528.5	520.6
57.5°	497.7	509.7	499.7	482.8	474.9
60°	454.0	467.9	453.0	437.1	432.2
62.5°	408.3	424.2	407.3	393.4	386.5
65°	359.6	381.5	361.6	347.7	341.8
67.5°	312.0	334.8	313.9	302.0	298.0
70°	267.2	280.2	270.2	258.3	250.4
72.5°	213.6	226.5	224.5	211.6	206.6
75°	169.9	181.8	177.8	166.9	161.9
77.5°	126.2	139.1	135.1	122.2	120.2
80°	90.4	99.3	92.4	80.5	76.5
82.5°	56.6	63.6	54.6	45.7	43.7
85°	29.8	31.8	25.8	22.8	21.9
87.5°	9.9	10.9	10.9	9.9	9.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)