

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: P259149

Luminaire Tested: **14CZ-LD5-44-SQP-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259149
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-4500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2858.0 lumens
Efficiency: N/A
Efficacy: 78.8 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

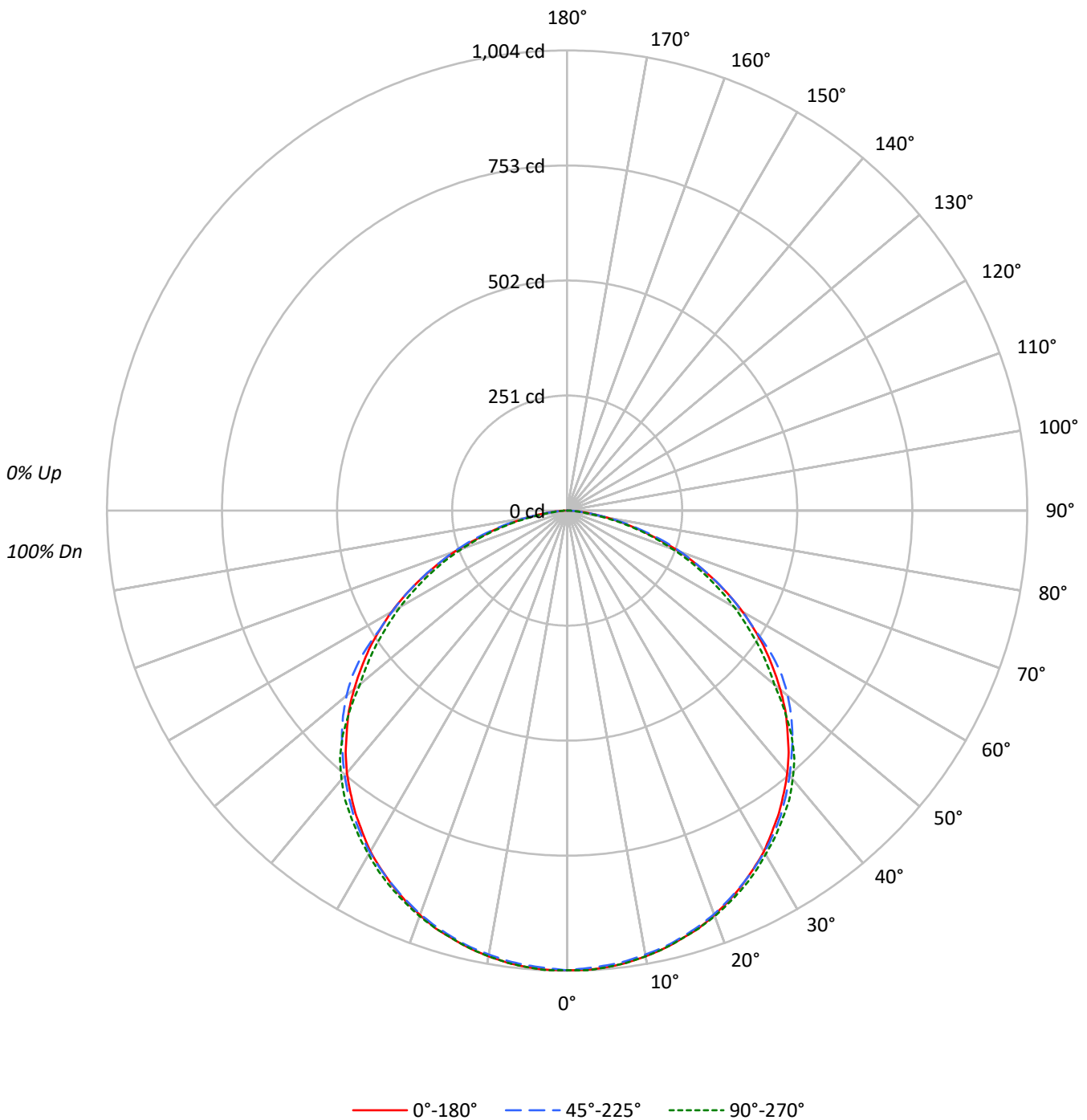
Input Watts (W): 36.27
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2699	2699	2699
5°	2701	2691	2701
10°	2698	2688	2698
15°	2694	2686	2694
20°	2689	2684	2697
25°	2679	2676	2696
30°	2668	2674	2692
35°	2646	2668	2694
40°	2625	2653	2690
45°	2586	2645	2634
50°	2541	2630	2472
55°	2475	2548	2380
60°	2381	2376	2266
65°	2231	2244	2120
70°	2049	2072	1920
75°	1721	1802	1641
80°	1365	1395	1155
85°	895	778	658



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.0	3.3
10°-20°	273.0	9.6
20°-30°	416.8	14.6
30°-40°	508.6	17.8
40°-50°	531.8	18.6
50°-60°	470.8	16.5
60°-70°	346.7	12.1
70°-80°	179.5	6.3
80°-90°	35.8	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°	784.8	27.5
0°-40°	1293.4	45.3
0°-60°	2296.0	80.3
0°-90°	2858.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2858.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1003	1003	1003	1003	1003	
5°	1000	1000	996	1000	1000	95
15°	967	967	964	968	967	273
25°	902	902	901	907	908	416
35°	805	807	812	820	820	504
45°	680	685	695	701	692	525
55°	528	538	543	515	507	471
65°	350	372	352	339	333	347
75°	166	177	173	163	158	177
85°	29	31	25	22	21	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1002.9	1002.9	1002.9	1002.9	1002.9
2.5°	1002.9	1002.9	999.1	1002.9	1003.9
5°	1000.0	1000.0	996.1	1000.0	1000.0
7.5°	995.2	994.2	991.3	995.2	995.2
10°	987.4	987.4	983.6	988.4	987.4
12.5°	978.7	977.8	975.8	979.7	978.7
15°	967.1	967.1	964.2	968.1	967.1
17.5°	955.5	954.5	951.6	955.5	955.5
20°	939.0	938.1	937.1	941.0	941.9
22.5°	921.6	920.6	919.7	925.5	925.5
25°	902.2	902.2	901.3	907.1	908.1
27.5°	880.9	880.9	881.9	889.7	888.7
30°	858.7	858.7	860.6	866.4	866.4
32.5°	831.6	833.5	837.4	844.2	844.2
35°	805.4	807.4	812.2	820.0	820.0
37.5°	776.4	779.3	784.1	793.8	795.8
40°	747.4	749.3	755.1	765.7	765.7
42.5°	715.4	717.3	725.1	735.7	733.8
45°	679.6	685.4	695.1	700.9	692.2
47.5°	645.7	649.6	663.1	656.4	641.8
50°	607.0	614.7	628.3	604.1	590.5
52.5°	567.3	576.0	590.5	556.6	548.9
55°	527.6	538.2	543.1	515.0	507.3
57.5°	485.0	496.6	486.9	470.5	462.7
60°	442.4	456.0	441.4	426.0	421.1
62.5°	397.9	413.4	396.9	383.4	376.6
65°	350.4	371.7	352.4	338.8	333.0
67.5°	304.0	326.2	305.9	294.3	290.4
70°	260.4	273.0	263.3	251.7	244.0
72.5°	208.1	220.7	218.8	206.2	201.4
75°	165.5	177.2	173.3	162.6	157.8
77.5°	122.9	135.5	131.7	119.1	117.1
80°	88.1	96.8	90.0	78.4	74.5
82.5°	55.2	62.0	53.2	44.5	42.6
85°	29.0	31.0	25.2	22.3	21.3
87.5°	9.7	10.6	10.6	9.7	9.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)