

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: P259147

Luminaire Tested: **14CZ-LD5-44-SQP-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259147
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-3500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2747.0 lumens
Efficiency: N/A
Efficacy: 76.7 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

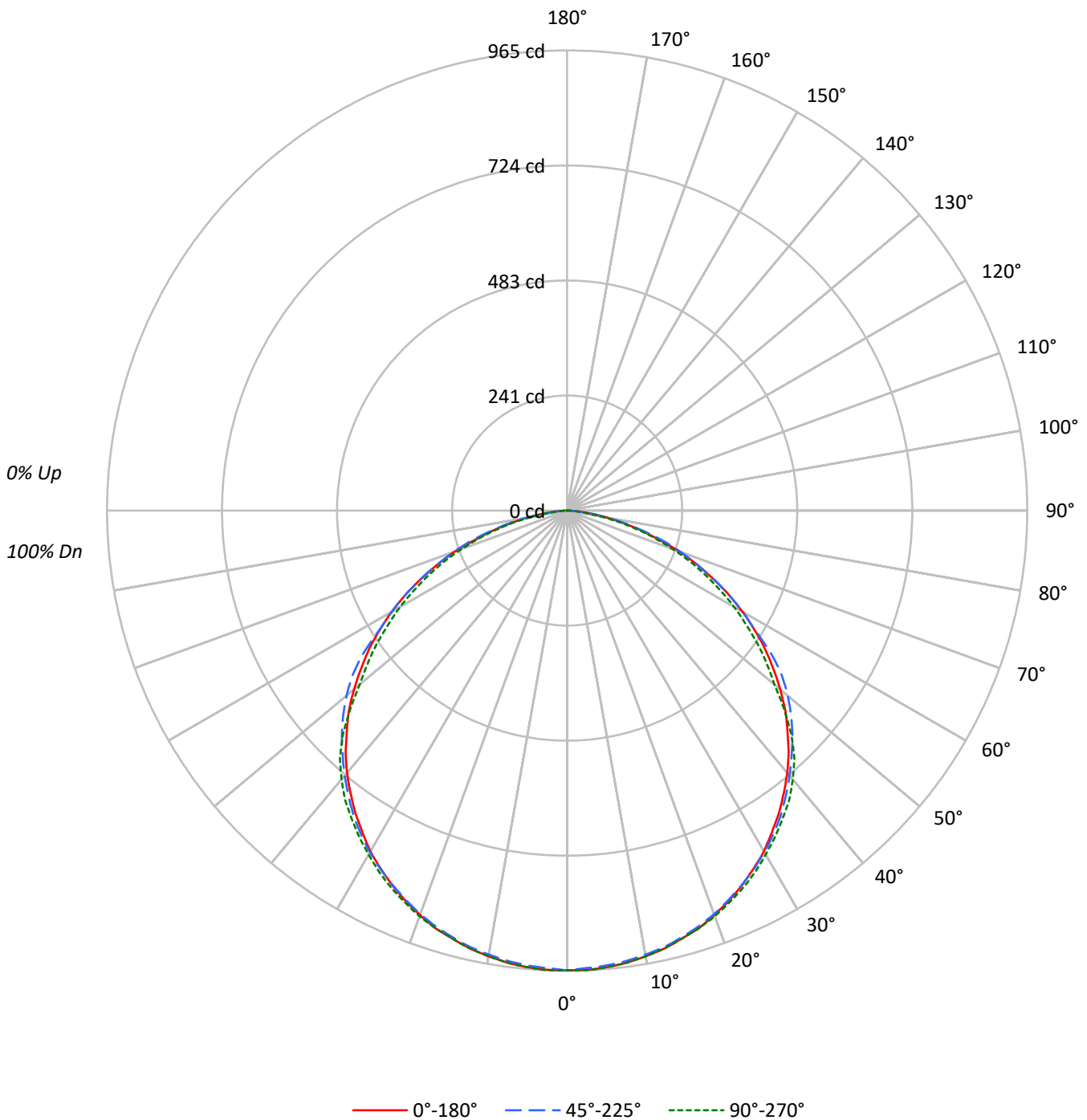
Input Watts (W): 35.805
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2594	2594	2594
5°	2596	2586	2596
10°	2593	2583	2593
15°	2589	2582	2589
20°	2585	2579	2593
25°	2575	2572	2591
30°	2564	2570	2588
35°	2543	2565	2589
40°	2523	2550	2585
45°	2486	2543	2532
50°	2442	2528	2376
55°	2379	2449	2288
60°	2288	2284	2179
65°	2145	2157	2038
70°	1969	1991	1845
75°	1654	1732	1577
80°	1313	1340	1110
85°	861	747	633



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.3	3.3
10°-20°	262.4	9.6
20°-30°	400.6	14.6
30°-40°	488.8	17.8
40°-50°	511.2	18.6
50°-60°	452.5	16.5
60°-70°	333.3	12.1
70°-80°	172.5	6.3
80°-90°	34.4	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°	754.3	27.5
0°-40°	1243.1	45.3
0°-60°	2206.9	80.3
0°-90°	2747.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2747.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	964	964	964	964	964	
5°	961	961	958	961	961	91
15°	930	930	927	930	930	263
25°	867	867	866	872	873	400
35°	774	776	781	788	788	484
45°	653	659	668	674	665	504
55°	507	517	522	495	488	452
65°	337	357	339	326	320	334
75°	159	170	167	156	152	170
85°	28	30	24	21	20	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	964.0	964.0	964.0	964.0	964.0
2.5°	964.0	964.0	960.2	964.0	964.9
5°	961.2	961.2	957.5	961.2	961.2
7.5°	956.5	955.6	952.8	956.5	956.5
10°	949.1	949.1	945.4	950.0	949.1
12.5°	940.7	939.8	937.9	941.6	940.7
15°	929.5	929.5	926.8	930.5	929.5
17.5°	918.4	917.4	914.7	918.4	918.4
20°	902.6	901.6	900.7	904.4	905.4
22.5°	885.8	884.9	883.9	889.5	889.5
25°	867.2	867.2	866.3	871.9	872.8
27.5°	846.7	846.7	847.7	855.1	854.2
30°	825.3	825.3	827.2	832.8	832.8
32.5°	799.3	801.1	804.9	811.4	811.4
35°	774.2	776.0	780.7	788.1	788.1
37.5°	746.2	749.0	753.7	763.0	764.8
40°	718.3	720.2	725.8	736.0	736.0
42.5°	687.6	689.5	696.9	707.2	705.3
45°	653.2	658.8	668.1	673.7	665.3
47.5°	620.6	624.3	637.4	630.9	616.9
50°	583.4	590.9	603.9	580.6	567.6
52.5°	545.3	553.6	567.6	535.0	527.6
55°	507.1	517.3	522.0	495.0	487.6
57.5°	466.2	477.3	468.0	452.2	444.8
60°	425.2	438.3	424.3	409.4	404.8
62.5°	382.4	397.3	381.5	368.5	362.0
65°	336.8	357.3	338.7	325.7	320.1
67.5°	292.2	313.6	294.0	282.9	279.1
70°	250.3	262.4	253.1	241.9	234.5
72.5°	200.1	212.1	210.3	198.2	193.5
75°	159.1	170.3	166.6	156.3	151.7
77.5°	118.2	130.3	126.5	114.4	112.6
80°	84.7	93.0	86.5	75.4	71.6
82.5°	53.0	59.6	51.2	42.8	40.9
85°	27.9	29.8	24.2	21.4	20.5
87.5°	9.3	10.2	10.2	9.3	9.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)