

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: P259146

Luminaire Tested: **14CZ-LD5-44-SQP-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259146
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-3000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2656.0 lumens
Efficiency: N/A
Efficacy: 75.2 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

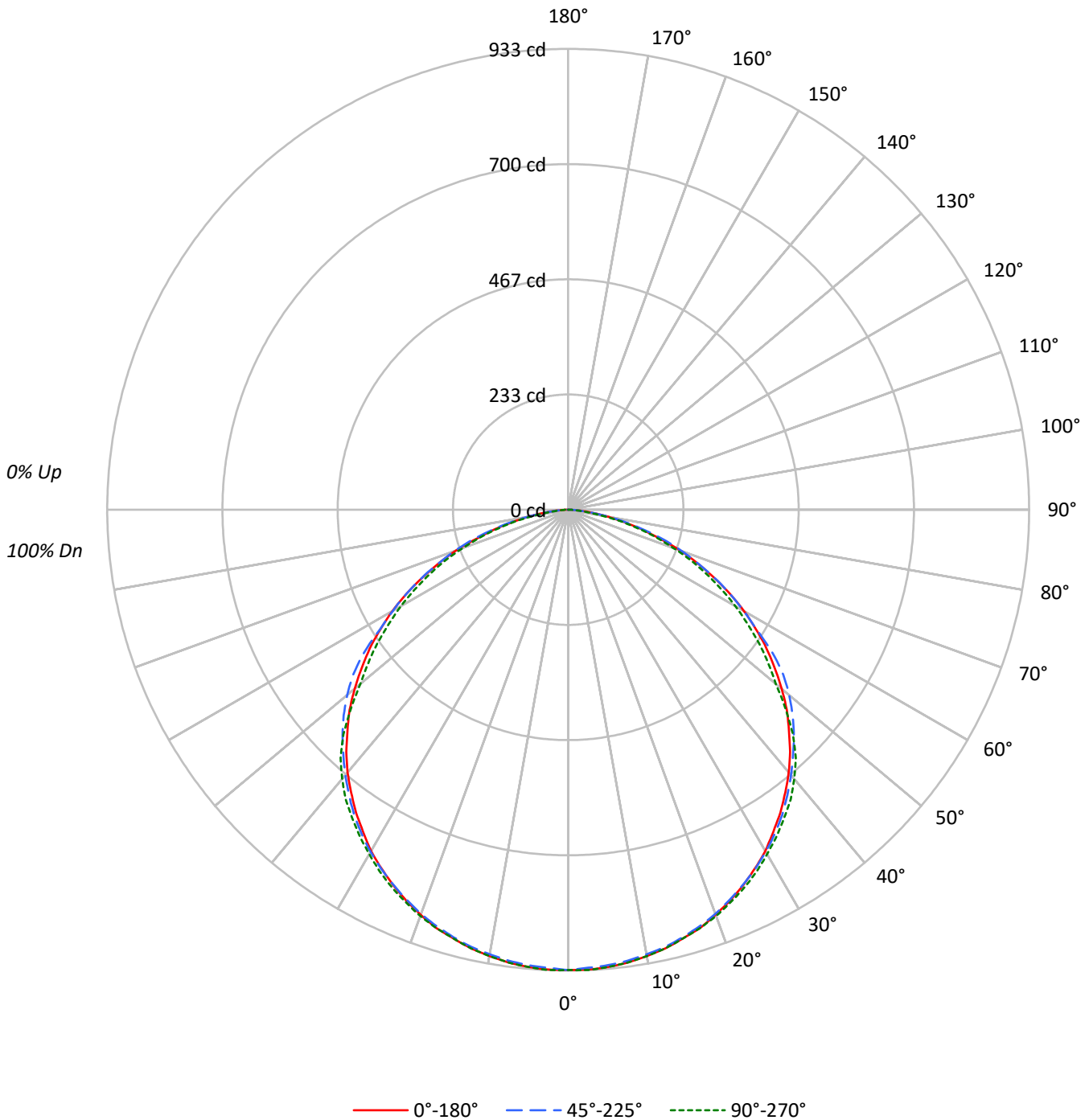
Input Watts (W): 35.34
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2508	2508	2508
5°	2510	2501	2510
10°	2507	2497	2507
15°	2504	2496	2504
20°	2499	2494	2507
25°	2490	2487	2506
30°	2480	2485	2502
35°	2459	2480	2503
40°	2440	2465	2500
45°	2404	2458	2448
50°	2362	2444	2298
55°	2300	2368	2212
60°	2213	2208	2106
65°	2074	2085	1971
70°	1904	1925	1784
75°	1599	1674	1524
80°	1269	1297	1074
85°	834	722	611



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.3	3.3
10°-20°	253.7	9.6
20°-30°	387.4	14.6
30°-40°	472.6	17.8
40°-50°	494.2	18.6
50°-60°	437.5	16.5
60°-70°	322.2	12.1
70°-80°	166.8	6.3
80°-90°	33.2	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°	729.3	27.5
0°-40°	1202.0	45.3
0°-60°	2133.7	80.3
0°-90°	2656.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2656.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	932	932	932	932	932	
5°	929	929	926	929	929	88
15°	899	899	896	900	899	254
25°	838	838	838	843	844	387
35°	748	750	755	762	762	468
45°	632	637	646	651	643	488
55°	490	500	505	479	471	437
65°	326	346	328	315	310	323
75°	154	165	161	151	147	164
85°	27	29	23	21	20	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	932.0	932.0	932.0	932.0	932.0
2.5°	932.0	932.0	928.4	932.0	932.9
5°	929.3	929.3	925.7	929.3	929.3
7.5°	924.8	923.9	921.2	924.8	924.8
10°	917.6	917.6	914.0	918.5	917.6
12.5°	909.5	908.6	906.8	910.4	909.5
15°	898.7	898.7	896.1	899.6	898.7
17.5°	888.0	887.1	884.4	888.0	888.0
20°	872.7	871.8	870.9	874.5	875.4
22.5°	856.5	855.6	854.7	860.1	860.1
25°	838.5	838.5	837.6	843.0	843.9
27.5°	818.7	818.7	819.6	826.8	825.9
30°	798.0	798.0	799.8	805.2	805.2
32.5°	772.8	774.6	778.2	784.5	784.5
35°	748.5	750.3	754.8	762.0	762.0
37.5°	721.5	724.2	728.7	737.7	739.5
40°	694.5	696.3	701.7	711.6	711.6
42.5°	664.8	666.6	673.8	683.7	681.9
45°	631.6	637.0	645.9	651.3	643.2
47.5°	600.1	603.7	616.3	610.0	596.5
50°	564.1	571.3	583.9	561.4	548.8
52.5°	527.2	535.3	548.8	517.3	510.1
55°	490.3	500.2	504.7	478.6	471.4
57.5°	450.7	461.5	452.5	437.2	430.0
60°	411.1	423.7	410.2	395.8	391.3
62.5°	369.8	384.2	368.9	356.3	350.0
65°	325.7	345.5	327.5	314.9	309.5
67.5°	282.5	303.2	284.3	273.5	269.9
70°	242.0	253.7	244.7	233.9	226.7
72.5°	193.4	205.1	203.3	191.6	187.1
75°	153.8	164.6	161.0	151.1	146.6
77.5°	114.3	126.0	122.4	110.7	108.9
80°	81.9	90.0	83.7	72.9	69.3
82.5°	51.3	57.6	49.5	41.4	39.6
85°	27.0	28.8	23.4	20.7	19.8
87.5°	9.0	9.9	9.9	9.0	9.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)