

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: P259142

Luminaire Tested: **14CZ-LD5-39-SQP-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259142
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-LD5-39-SQP-UNV-L82765-W2A1-U-5500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2617.0 lumens
Efficiency: N/A
Efficacy: 82.3 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

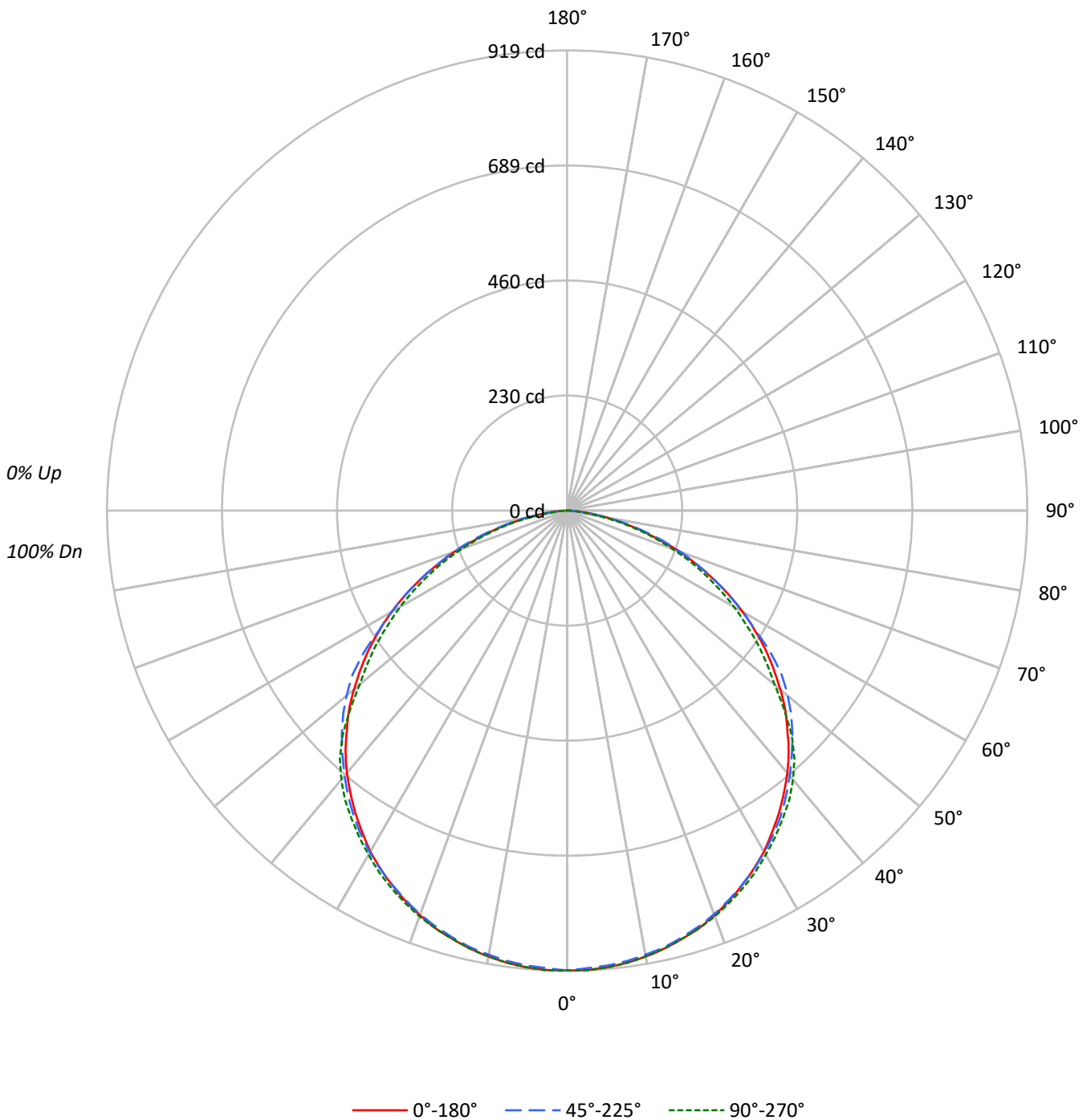
Input Watts (W): 31.806
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2471	2471	2471
5°	2474	2464	2474
10°	2471	2461	2471
15°	2467	2460	2467
20°	2462	2457	2470
25°	2453	2450	2469
30°	2443	2449	2465
35°	2423	2443	2466
40°	2404	2429	2463
45°	2368	2422	2412
50°	2327	2408	2264
55°	2267	2333	2179
60°	2180	2175	2075
65°	2043	2055	1941
70°	1876	1897	1758
75°	1576	1650	1502
80°	1251	1277	1058
85°	821	710	602



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.0	3.3
10°-20°	250.0	9.6
20°-30°	381.7	14.6
30°-40°	465.7	17.8
40°-50°	487.0	18.6
50°-60°	431.1	16.5
60°-70°	317.5	12.1
70°-80°	164.4	6.3
80°-90°	32.8	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°	718.6	27.5
0°-40°	1184.3	45.3
0°-60°	2102.4	80.3
0°-90°	2617.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2617.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	918	918	918	918	918	
5°	916	916	912	916	916	87
15°	886	886	883	886	886	250
25°	826	826	825	831	832	381
35°	738	739	744	751	751	461
45°	622	628	636	642	634	480
55°	483	493	497	472	464	431
65°	321	340	323	310	305	318
75°	152	162	159	149	144	162
85°	27	28	23	20	20	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	918.4	918.4	918.4	918.4	918.4
2.5°	918.4	918.4	914.8	918.4	919.2
5°	915.7	915.7	912.1	915.7	915.7
7.5°	911.3	910.4	907.7	911.3	911.3
10°	904.2	904.2	900.6	905.1	904.2
12.5°	896.2	895.3	893.5	897.1	896.2
15°	885.6	885.6	882.9	886.4	885.6
17.5°	874.9	874.0	871.4	874.9	874.9
20°	859.8	859.0	858.1	861.6	862.5
22.5°	843.9	843.0	842.1	847.4	847.4
25°	826.2	826.2	825.3	830.6	831.5
27.5°	806.7	806.7	807.5	814.6	813.8
30°	786.3	786.3	788.0	793.4	793.4
32.5°	761.5	763.2	766.8	773.0	773.0
35°	737.5	739.3	743.7	750.8	750.8
37.5°	710.9	713.6	718.0	726.9	728.7
40°	684.3	686.1	691.4	701.2	701.2
42.5°	655.1	656.9	663.9	673.7	671.9
45°	622.3	627.6	636.5	641.8	633.8
47.5°	591.3	594.8	607.2	601.0	587.7
50°	555.8	562.9	575.3	553.1	540.7
52.5°	519.5	527.4	540.7	509.7	502.6
55°	483.1	492.9	497.3	471.6	464.5
57.5°	444.1	454.7	445.9	430.8	423.7
60°	405.1	417.5	404.2	390.0	385.6
62.5°	364.3	378.5	363.4	351.0	344.8
65°	320.9	340.4	322.7	310.3	304.9
67.5°	278.3	298.7	280.1	269.5	265.9
70°	238.5	250.0	241.1	230.5	223.4
72.5°	190.6	202.1	200.3	188.8	184.4
75°	151.6	162.2	158.7	148.9	144.5
77.5°	112.6	124.1	120.6	109.0	107.3
80°	80.7	88.6	82.4	71.8	68.3
82.5°	50.5	56.7	48.8	40.8	39.0
85°	26.6	28.4	23.0	20.4	19.5
87.5°	8.9	9.8	9.8	8.9	8.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)