

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: P259061

Luminaire Tested: **14CZ-LD5-39-SQP-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259061
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-L83050-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: 2517.0 lumens
Efficiency: N/A
Efficacy: 81.3 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

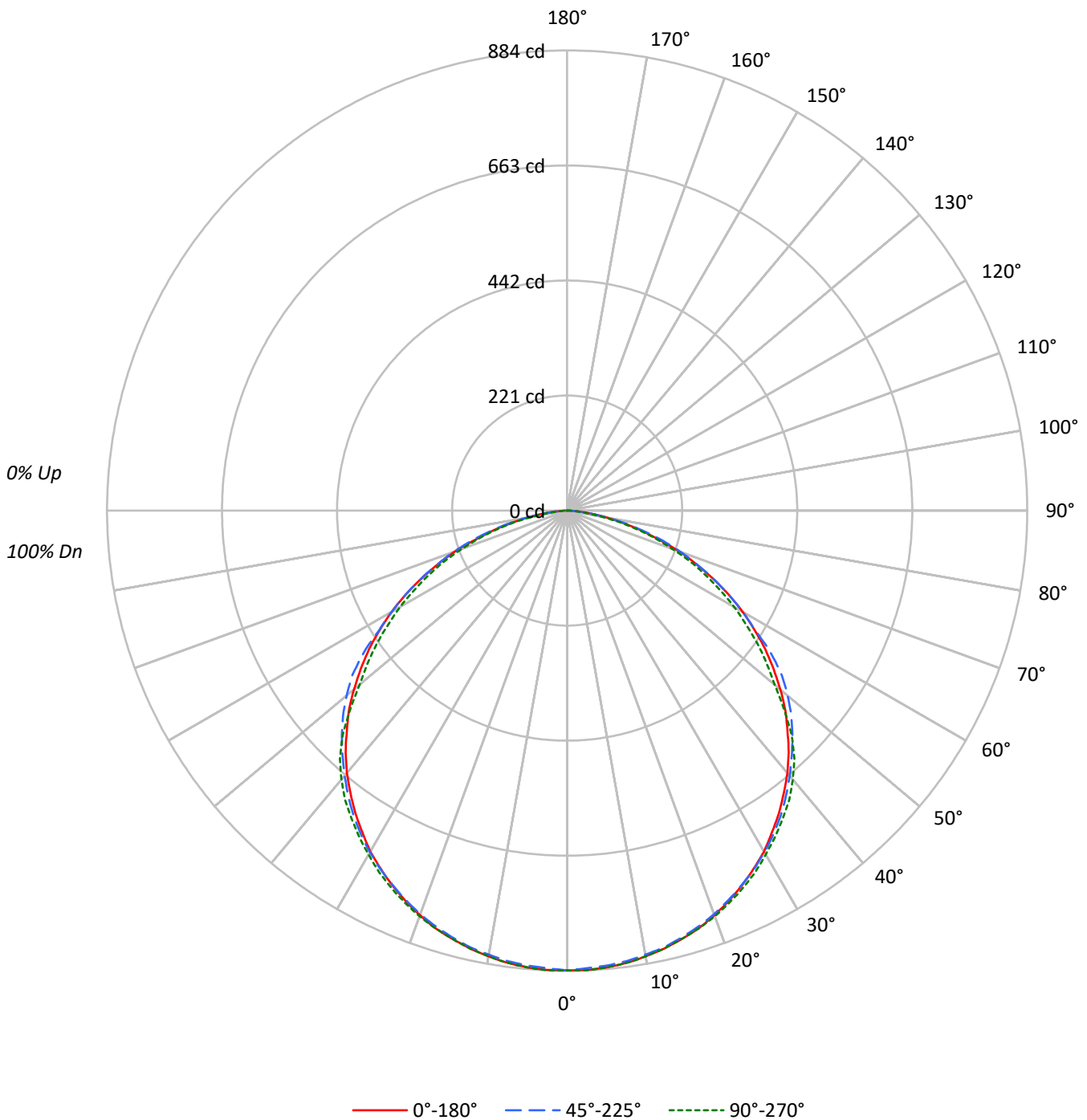
Input Watts (W): 30.969
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2377	2377	2377
5°	2379	2370	2379
10°	2376	2367	2376
15°	2373	2366	2373
20°	2368	2363	2375
25°	2359	2357	2374
30°	2350	2355	2371
35°	2330	2350	2372
40°	2312	2336	2369
45°	2278	2329	2320
50°	2238	2316	2177
55°	2180	2244	2096
60°	2097	2093	1996
65°	1965	1976	1868
70°	1804	1825	1690
75°	1516	1587	1445
80°	1203	1229	1017
85°	790	685	580



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.6	3.3
10°-20°	240.4	9.6
20°-30°	367.1	14.6
30°-40°	447.9	17.8
40°-50°	468.4	18.6
50°-60°	414.7	16.5
60°-70°	305.3	12.1
70°-80°	158.1	6.3
80°-90°	31.5	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°	691.2	27.5
0°-40°	1139.0	45.3
0°-60°	2022.1	80.3
0°-90°	2517.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2517.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	883	883	883	883	883	
5°	881	881	877	881	881	84
15°	852	852	849	853	852	241
25°	795	795	794	799	800	366
35°	709	711	715	722	722	444
45°	598	604	612	617	610	462
55°	465	474	478	454	447	414
65°	309	327	310	298	293	306
75°	146	156	153	143	139	156
85°	26	27	22	20	19	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	883.3	883.3	883.3	883.3	883.3
2.5°	883.3	883.3	879.8	883.3	884.1
5°	880.7	880.7	877.3	880.7	880.7
7.5°	876.4	875.6	873.0	876.4	876.4
10°	869.6	869.6	866.2	870.5	869.6
12.5°	861.9	861.1	859.4	862.8	861.9
15°	851.7	851.7	849.2	852.6	851.7
17.5°	841.5	840.6	838.1	841.5	841.5
20°	827.0	826.1	825.3	828.7	829.5
22.5°	811.6	810.8	809.9	815.1	815.1
25°	794.6	794.6	793.7	798.9	799.7
27.5°	775.8	775.8	776.7	783.5	782.7
30°	756.2	756.2	757.9	763.0	763.0
32.5°	732.4	734.1	737.5	743.4	743.4
35°	709.3	711.0	715.3	722.1	722.1
37.5°	683.8	686.3	690.6	699.1	700.8
40°	658.2	659.9	665.0	674.4	674.4
42.5°	630.0	631.8	638.6	648.0	646.2
45°	598.5	603.6	612.1	617.3	609.6
47.5°	568.7	572.1	584.0	578.0	565.3
50°	534.6	541.4	553.3	532.0	520.1
52.5°	499.6	507.3	520.1	490.2	483.4
55°	464.6	474.0	478.3	453.6	446.7
57.5°	427.1	437.4	428.8	414.3	407.5
60°	389.6	401.6	388.8	375.1	370.9
62.5°	350.4	364.0	349.6	337.6	331.6
65°	308.6	327.4	310.3	298.4	293.3
67.5°	267.7	287.3	269.4	259.2	255.8
70°	229.3	240.4	231.9	221.7	214.8
72.5°	183.3	194.4	192.7	181.6	177.3
75°	145.8	156.0	152.6	143.2	139.0
77.5°	108.3	119.4	115.9	104.9	103.2
80°	77.6	85.3	79.3	69.1	65.6
82.5°	48.6	54.6	46.9	39.2	37.5
85°	25.6	27.3	22.2	19.6	18.8
87.5°	8.5	9.4	9.4	8.5	8.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)