

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: P259099

Luminaire Tested: **14CZ-LD5-44-SQP-UNV-L93050-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259099
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-L93050-W2A1-U-5000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2628.0 lumens
Efficiency: N/A
Efficacy: 70.8 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

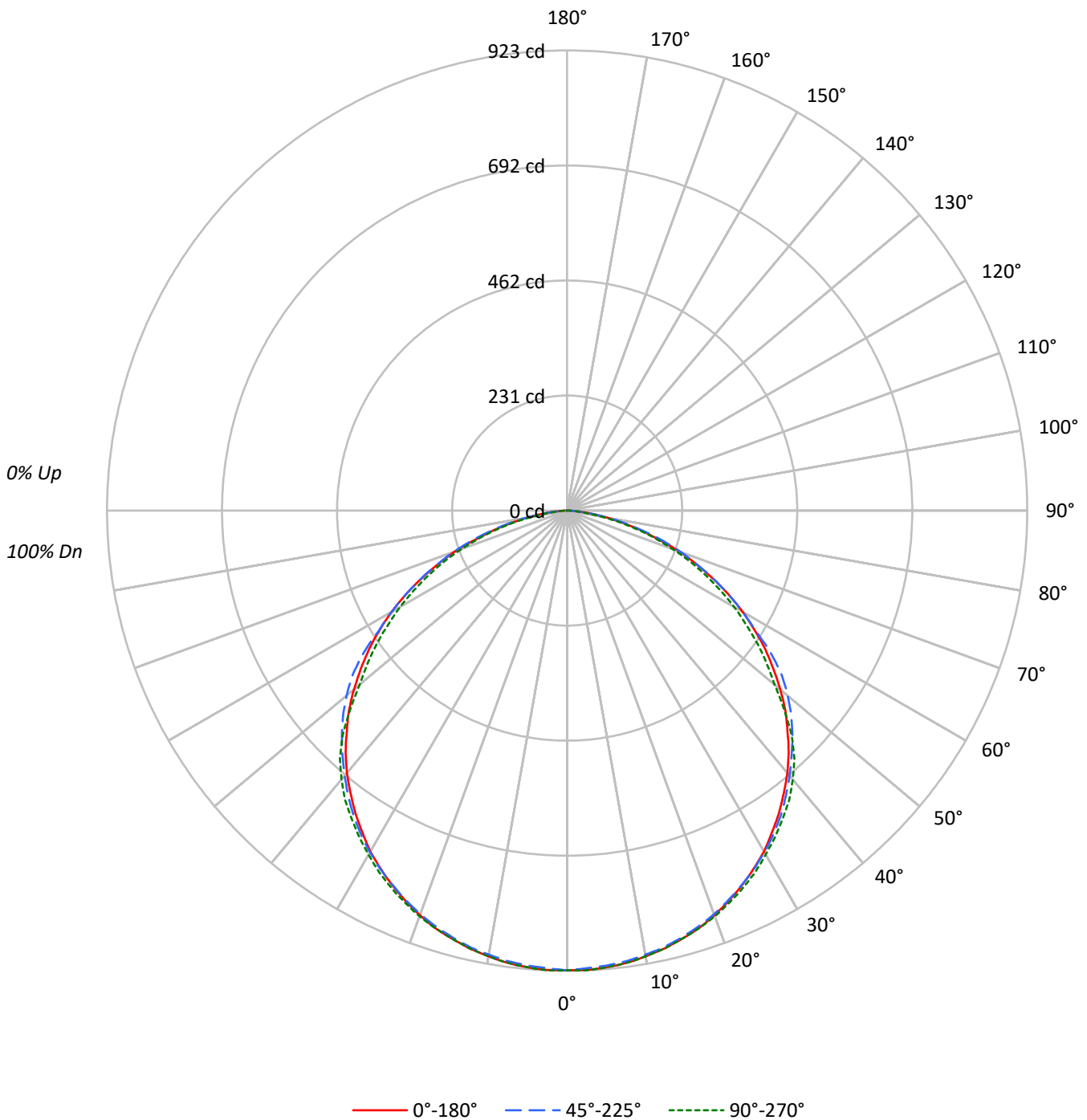
Input Watts (W): 37.107
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2482	2482	2482
5°	2484	2474	2484
10°	2481	2471	2481
15°	2478	2470	2478
20°	2473	2468	2480
25°	2463	2461	2479
30°	2454	2459	2476
35°	2433	2453	2477
40°	2414	2439	2473
45°	2378	2432	2422
50°	2336	2418	2273
55°	2276	2343	2188
60°	2189	2185	2084
65°	2052	2063	1950
70°	1884	1905	1765
75°	1582	1656	1509
80°	1255	1283	1062
85°	824	713	605



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.3	3.3
10°-20°	251.0	9.6
20°-30°	383.3	14.6
30°-40°	467.6	17.8
40°-50°	489.0	18.6
50°-60°	432.9	16.5
60°-70°	318.8	12.1
70°-80°	165.1	6.3
80°-90°	32.9	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°	721.6	27.5
0°-40°	1189.3	45.3
0°-60°	2111.2	80.3
0°-90°	2628.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2628.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	922	922	922	922	922	
5°	920	920	916	920	920	87
15°	889	889	887	890	889	251
25°	830	830	829	834	835	382
35°	741	742	747	754	754	463
45°	625	630	639	644	636	482
55°	485	495	499	474	466	433
65°	322	342	324	312	306	319
75°	152	163	159	150	145	163
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°	922.2	922.2	922.2	922.2	922.2
2.5°	922.2	922.2	918.7	922.2	923.1
5°	919.5	919.5	916.0	919.5	919.5
7.5°	915.1	914.2	911.5	915.1	915.1
10°	908.0	908.0	904.4	908.9	908.0
12.5°	900.0	899.1	897.3	900.8	900.0
15°	889.3	889.3	886.6	890.2	889.3
17.5°	878.6	877.7	875.0	878.6	878.6
20°	863.5	862.6	861.7	865.2	866.1
22.5°	847.4	846.5	845.7	851.0	851.0
25°	829.6	829.6	828.7	834.1	835.0
27.5°	810.1	810.1	810.9	818.1	817.2
30°	789.6	789.6	791.4	796.7	796.7
32.5°	764.7	766.4	770.0	776.2	776.2
35°	740.6	742.4	746.8	754.0	754.0
37.5°	713.9	716.6	721.0	729.9	731.7
40°	687.2	689.0	694.3	704.1	704.1
42.5°	657.8	659.6	666.7	676.5	674.7
45°	624.9	630.2	639.1	644.5	636.5
47.5°	593.7	597.3	609.8	603.5	590.2
50°	558.1	565.3	577.7	555.5	543.0
52.5°	521.6	529.6	543.0	511.8	504.7
55°	485.1	494.9	499.4	473.6	466.4
57.5°	446.0	456.7	447.8	432.6	425.5
60°	406.8	419.3	405.9	391.7	387.2
62.5°	365.9	380.1	365.0	352.5	346.3
65°	322.2	341.8	324.0	311.6	306.2
67.5°	279.5	300.0	281.3	270.6	267.0
70°	239.5	251.0	242.1	231.4	224.3
72.5°	191.4	203.0	201.2	189.6	185.2
75°	152.2	162.9	159.3	149.5	145.1
77.5°	113.1	124.6	121.1	109.5	107.7
80°	81.0	89.0	82.8	72.1	68.5
82.5°	50.7	57.0	49.0	40.9	39.2
85°	26.7	28.5	23.1	20.5	19.6
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)