

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: P259095

Luminaire Tested: **14CZ-LD5-44-SQP-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259095
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-3000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2189.0 lumens
Efficiency: N/A
Efficacy: 60.0 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

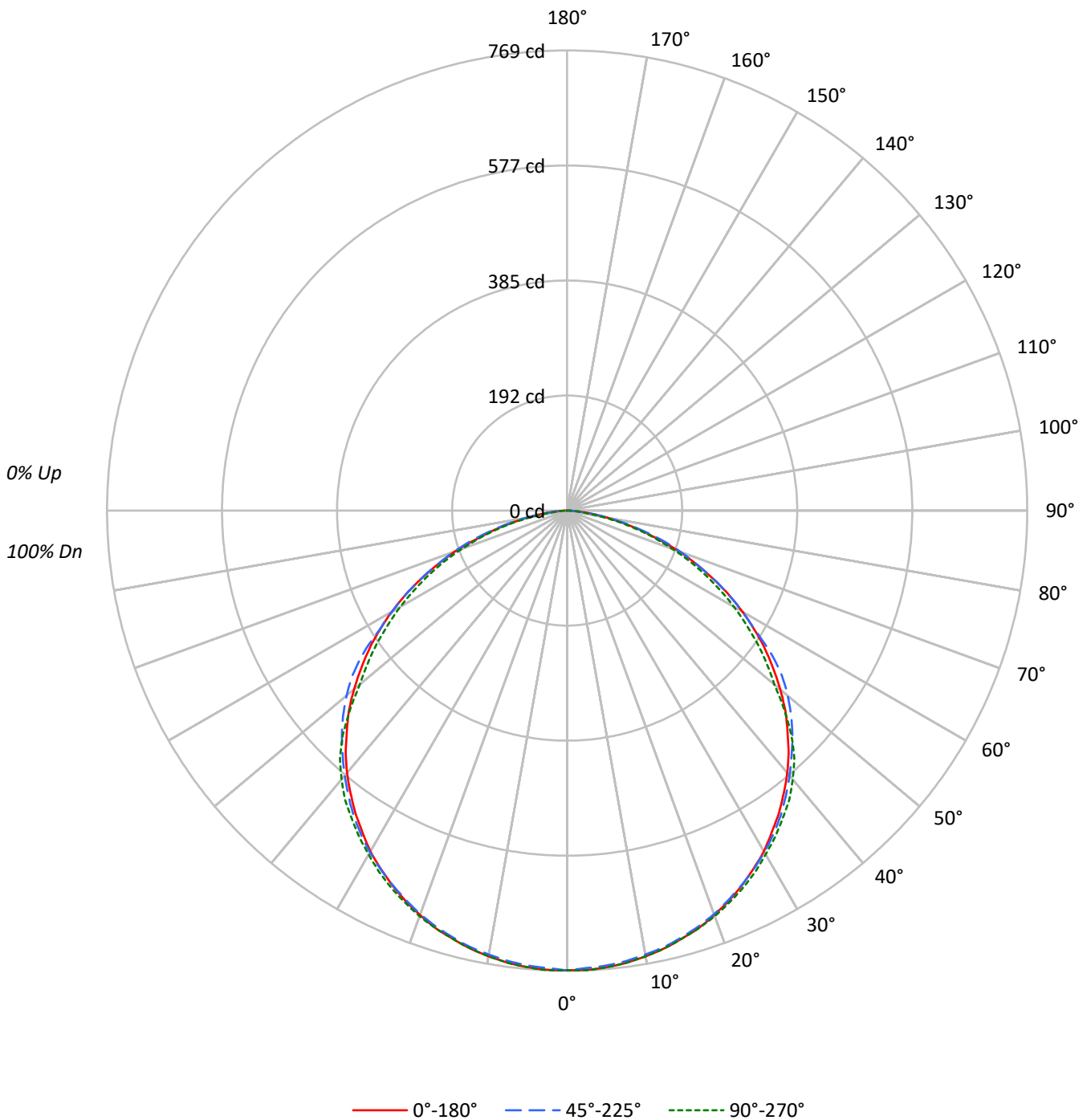
Input Watts (W): 36.456
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2067	2067	2067
5°	2069	2061	2069
10°	2067	2058	2067
15°	2064	2057	2064
20°	2060	2055	2066
25°	2052	2050	2065
30°	2044	2048	2062
35°	2027	2044	2063
40°	2011	2031	2060
45°	1981	2026	2017
50°	1946	2015	1894
55°	1896	1952	1823
60°	1823	1820	1736
65°	1709	1719	1624
70°	1570	1587	1470
75°	1318	1380	1257
80°	1046	1069	885
85°	685	596	503



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.7	3.3
10°-20°	209.1	9.6
20°-30°	319.3	14.6
30°-40°	389.5	17.8
40°-50°	407.3	18.6
50°-60°	360.6	16.5
60°-70°	265.5	12.1
70°-80°	137.5	6.3
80°-90°	27.4	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°	601.1	27.5
0°-40°	990.6	45.3
0°-60°	1758.6	80.3
0°-90°	2189.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2189.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	768	768	768	768	768	
5°	766	766	763	766	766	73
15°	741	741	738	742	741	209
25°	691	691	690	695	696	319
35°	617	618	622	628	628	386
45°	520	525	532	537	530	402
55°	404	412	416	394	388	360
65°	268	285	270	260	255	266
75°	127	136	133	125	121	135
85°	22	24	19	17	16	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	768.2	768.2	768.2	768.2	768.2
2.5°	768.2	768.2	765.2	768.2	768.9
5°	765.9	765.9	763.0	765.9	765.9
7.5°	762.2	761.5	759.3	762.2	762.2
10°	756.3	756.3	753.3	757.0	756.3
12.5°	749.6	748.9	747.4	750.4	749.6
15°	740.7	740.7	738.5	741.5	740.7
17.5°	731.8	731.1	728.9	731.8	731.8
20°	719.2	718.5	717.7	720.7	721.4
22.5°	705.9	705.1	704.4	708.8	708.8
25°	691.0	691.0	690.3	694.8	695.5
27.5°	674.7	674.7	675.5	681.4	680.7
30°	657.7	657.7	659.2	663.6	663.6
32.5°	636.9	638.4	641.4	646.6	646.6
35°	616.9	618.4	622.1	628.0	628.0
37.5°	594.7	596.9	600.6	608.0	609.5
40°	572.4	573.9	578.3	586.5	586.5
42.5°	547.9	549.4	555.4	563.5	562.0
45°	520.5	525.0	532.4	536.8	530.1
47.5°	494.6	497.5	507.9	502.7	491.6
50°	464.9	470.8	481.2	462.7	452.3
52.5°	434.5	441.2	452.3	426.3	420.4
55°	404.1	412.3	416.0	394.5	388.5
57.5°	371.5	380.4	373.0	360.4	354.4
60°	338.8	349.2	338.1	326.2	322.5
62.5°	304.7	316.6	304.0	293.6	288.4
65°	268.4	284.7	269.9	259.5	255.1
67.5°	232.8	249.9	234.3	225.4	222.4
70°	199.5	209.1	201.7	192.8	186.8
72.5°	159.4	169.1	167.6	157.9	154.2
75°	126.8	135.7	132.7	124.6	120.9
77.5°	94.2	103.8	100.8	91.2	89.7
80°	67.5	74.1	69.0	60.1	57.1
82.5°	42.3	47.5	40.8	34.1	32.6
85°	22.2	23.7	19.3	17.1	16.3
87.5°	7.4	8.2	8.2	7.4	7.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)