

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: P259096

Luminaire Tested: **14CZ-LD5-44-SQP-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259096
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-3500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2391.0 lumens
Efficiency: N/A
Efficacy: 65.9 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

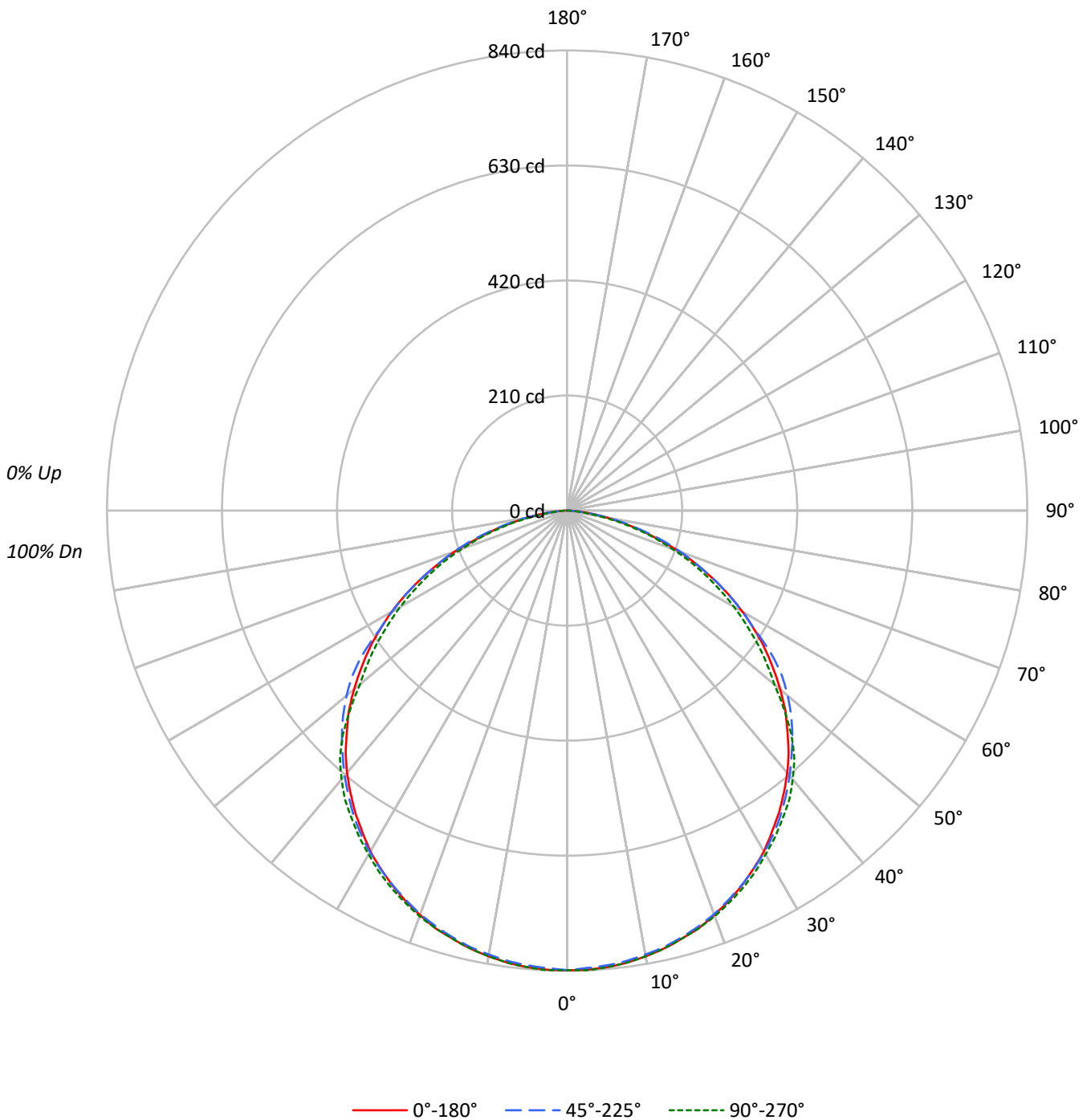
Input Watts (W): 36.27
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2258	2258	2258
5°	2260	2251	2260
10°	2257	2248	2257
15°	2254	2247	2254
20°	2250	2245	2257
25°	2241	2239	2256
30°	2232	2237	2252
35°	2213	2232	2254
40°	2196	2219	2250
45°	2163	2213	2204
50°	2126	2200	2068
55°	2071	2131	1991
60°	1992	1988	1896
65°	1867	1877	1774
70°	1714	1733	1606
75°	1440	1508	1372
80°	1142	1167	967
85°	750	651	550



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.5	3.3
10°-20°	228.4	9.6
20°-30°	348.7	14.6
30°-40°	425.5	17.8
40°-50°	444.9	18.6
50°-60°	393.9	16.5
60°-70°	290.1	12.1
70°-80°	150.2	6.3
80°-90°	29.9	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°	656.6	27.5
0°-40°	1082.0	45.3
0°-60°	1920.9	80.3
0°-90°	2391.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2391.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	839	839	839	839	839	
5°	837	837	833	837	837	80
15°	809	809	807	810	809	229
25°	755	755	754	759	760	348
35°	674	675	680	686	686	421
45°	568	573	582	586	579	439
55°	441	450	454	431	424	394
65°	293	311	295	284	279	290
75°	138	148	145	136	132	148
85°	24	26	21	19	18	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	839.0	839.0	839.0	839.0	839.0
2.5°	839.0	839.0	835.8	839.0	839.9
5°	836.6	836.6	833.4	836.6	836.6
7.5°	832.6	831.8	829.3	832.6	832.6
10°	826.1	826.1	822.8	826.9	826.1
12.5°	818.8	818.0	816.4	819.6	818.8
15°	809.1	809.1	806.6	809.9	809.1
17.5°	799.4	798.5	796.1	799.4	799.4
20°	785.6	784.8	784.0	787.2	788.0
22.5°	771.0	770.2	769.4	774.3	774.3
25°	754.8	754.8	754.0	758.9	759.7
27.5°	737.0	737.0	737.8	744.3	743.5
30°	718.4	718.4	720.0	724.8	724.8
32.5°	695.7	697.3	700.6	706.2	706.2
35°	673.8	675.4	679.5	686.0	686.0
37.5°	649.5	652.0	656.0	664.1	665.7
40°	625.2	626.9	631.7	640.6	640.6
42.5°	598.5	600.1	606.6	615.5	613.9
45°	568.5	573.4	581.5	586.4	579.1
47.5°	540.2	543.4	554.8	549.1	537.0
50°	507.8	514.3	525.6	505.4	494.0
52.5°	474.6	481.9	494.0	465.7	459.2
55°	441.4	450.3	454.3	430.9	424.4
57.5°	405.8	415.5	407.4	393.6	387.1
60°	370.1	381.5	369.3	356.4	352.3
62.5°	332.9	345.8	332.1	320.7	315.0
65°	293.2	311.0	294.8	283.5	278.6
67.5°	254.3	272.9	255.9	246.2	243.0
70°	217.9	228.4	220.3	210.6	204.1
72.5°	174.1	184.7	183.0	172.5	168.5
75°	138.5	148.2	145.0	136.1	132.0
77.5°	102.9	113.4	110.1	99.6	98.0
80°	73.7	81.0	75.3	65.6	62.4
82.5°	46.2	51.8	44.5	37.3	35.6
85°	24.3	25.9	21.1	18.6	17.8
87.5°	8.1	8.9	8.9	8.1	8.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)