

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: P258924

Luminaire Tested: **14CZ-LD5-39-RDP-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258924
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35909)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-39-RDP-UNV-L93050-W2A1-U-4000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2401.0 lumens
Efficiency: N/A
Efficacy: 75.5 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

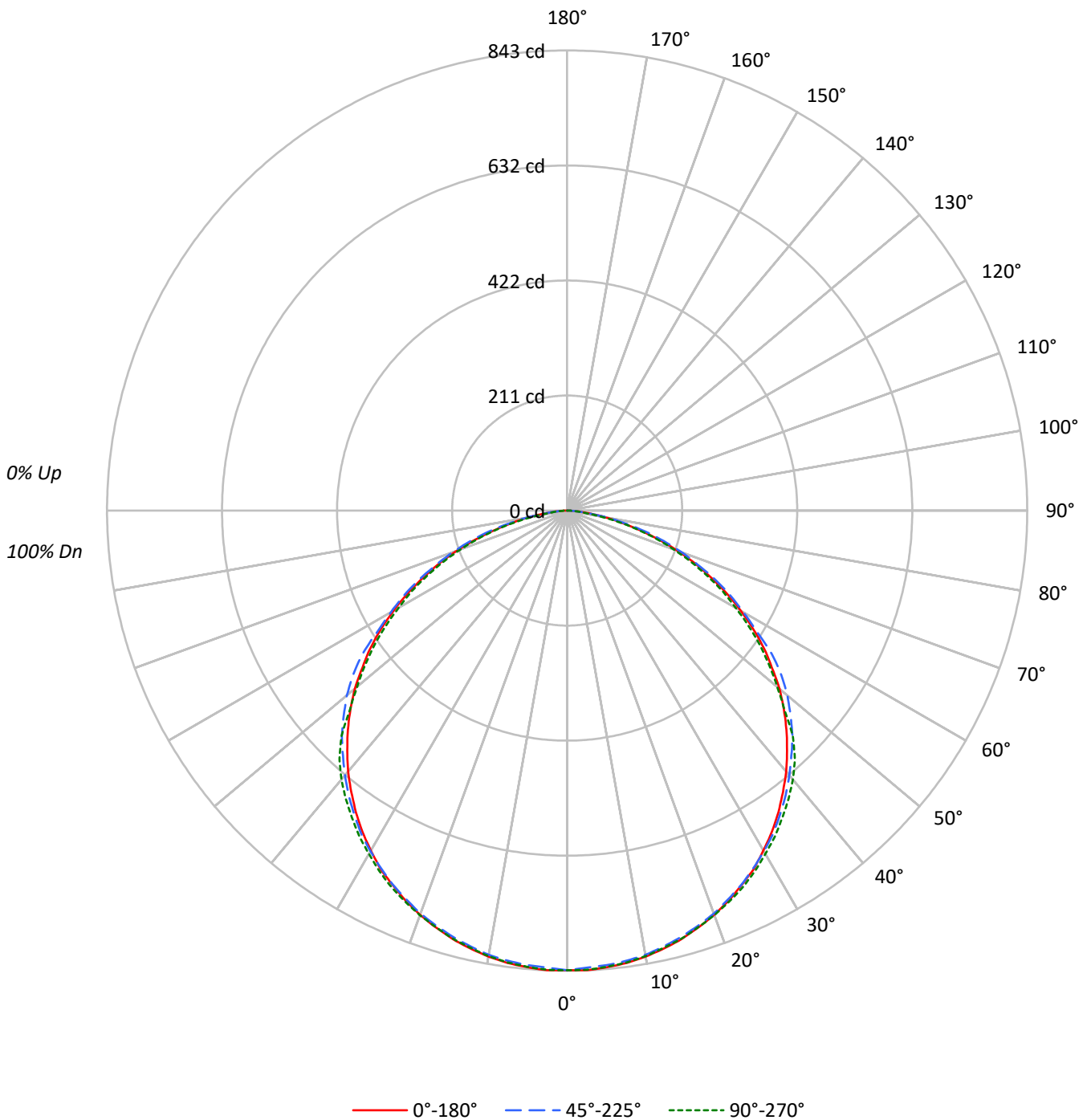
Input Watts (W): 31.806
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	51
5	76	63	54	48	74	62	54	47	60	53	47	58	51	46	56	50	46	44
6	70	57	48	42	68	56	47	41	54	47	41	52	46	41	51	45	40	38
7	65	52	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	34
8	61	47	38	33	59	46	38	33	45	38	32	44	37	32	43	36	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	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2266	2266	2266
5°	2268	2258	2266
10°	2267	2258	2264
15°	2263	2252	2261
20°	2257	2250	2259
25°	2247	2245	2261
30°	2235	2239	2257
35°	2216	2234	2257
40°	2194	2224	2260
45°	2162	2222	2225
50°	2126	2205	2103
55°	2067	2148	2027
60°	1979	2009	1920
65°	1854	1903	1804
70°	1687	1755	1632
75°	1408	1538	1383
80°	1116	1176	958
85°	726	627	556



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.7	3.3
10°-20°	229.0	9.5
20°-30°	349.5	14.6
30°-40°	426.1	17.7
40°-50°	446.2	18.6
50°-60°	396.9	16.5
60°-70°	292.9	12.2
70°-80°	151.3	6.3
80°-90°	29.4	1.2
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°	658.2	27.4
0°-40°	1084.3	45.2
0°-60°	1927.4	80.3
0°-90°	2401.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2401.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	842	842	842	842	842	
5°	840	839	836	839	839	80
15°	812	812	808	812	812	229
25°	757	757	756	761	761	349
35°	675	675	680	688	687	422
45°	568	572	584	589	585	438
55°	441	450	458	438	432	393
65°	291	312	299	289	283	289
75°	135	150	148	136	133	146
85°	24	26	20	19	18	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	842.0	842.0	842.0	842.0	842.0
2.5°	842.8	842.0	838.1	842.0	842.0
5°	839.7	838.9	835.8	838.9	838.9
7.5°	835.8	835.0	831.9	835.0	835.0
10°	829.5	828.7	826.4	829.5	828.7
12.5°	821.7	821.7	817.8	821.7	820.1
15°	812.3	811.5	808.4	811.5	811.5
17.5°	800.6	799.8	797.4	801.3	799.8
20°	788.0	787.3	785.7	789.6	788.8
22.5°	773.2	773.2	770.8	775.5	775.5
25°	756.7	756.7	756.0	761.4	761.4
27.5°	740.3	738.7	738.7	744.2	745.0
30°	719.2	719.2	720.7	727.0	726.2
32.5°	698.0	698.8	702.0	707.4	708.2
35°	674.6	675.4	680.0	687.9	687.1
37.5°	649.5	651.9	657.4	666.0	666.0
40°	624.5	626.1	633.1	642.5	643.3
42.5°	596.3	600.2	608.1	619.0	617.4
45°	568.1	572.1	583.8	589.3	584.6
47.5°	538.4	543.1	554.8	555.6	540.0
50°	507.9	513.4	526.7	511.0	502.4
52.5°	472.7	482.8	494.6	472.7	467.2
55°	440.6	450.0	457.8	438.2	432.0
57.5°	404.6	417.1	411.6	402.2	394.4
60°	367.8	381.1	373.3	363.9	356.8
62.5°	330.2	345.1	337.3	327.9	321.6
65°	291.1	311.5	298.9	288.8	283.3
67.5°	254.3	273.9	259.0	251.2	245.7
70°	214.4	230.9	223.0	212.9	207.4
72.5°	175.3	187.8	185.5	174.5	170.6
75°	135.4	149.5	147.9	136.2	133.0
77.5°	101.7	115.0	110.3	101.0	97.0
80°	72.0	80.6	75.9	65.0	61.8
82.5°	43.8	50.9	43.0	36.8	33.7
85°	23.5	25.8	20.3	18.8	18.0
87.5°	8.6	8.6	8.6	7.8	7.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)