

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: P259138

Luminaire Tested: **14CZ-LD5-39-SQP-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259138
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-L82765-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: 2458.0 lumens
Efficiency: N/A
Efficacy: 78.9 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

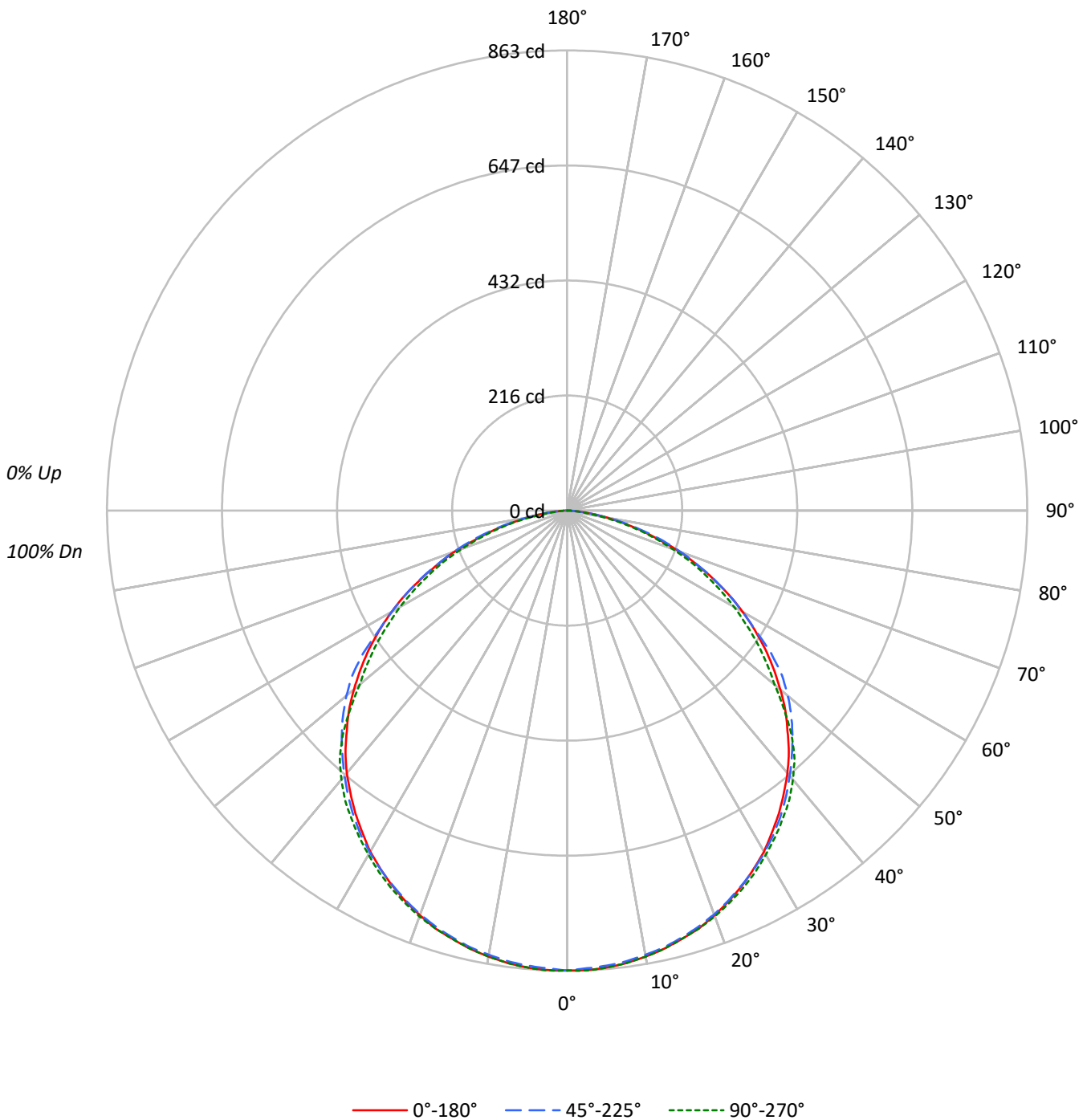
Input Watts (W): 31.155
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2321	2321	2321
5°	2323	2314	2323
10°	2320	2311	2320
15°	2317	2310	2317
20°	2313	2308	2320
25°	2304	2301	2319
30°	2295	2300	2316
35°	2276	2295	2317
40°	2258	2281	2314
45°	2224	2275	2265
50°	2185	2262	2126
55°	2129	2191	2047
60°	2048	2044	1949
65°	1919	1930	1824
70°	1762	1782	1651
75°	1481	1549	1411
80°	1175	1199	993
85°	772	667	565



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.7	3.3
10°-20°	234.8	9.6
20°-30°	358.5	14.6
30°-40°	437.4	17.8
40°-50°	457.4	18.6
50°-60°	404.9	16.5
60°-70°	298.2	12.1
70°-80°	154.4	6.3
80°-90°	30.8	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°	675.0	27.5
0°-40°	1112.4	45.3
0°-60°	1974.7	80.3
0°-90°	2458.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2458.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	863	863	863	863	863	
5°	860	860	857	860	860	82
15°	832	832	829	833	832	235
25°	776	776	775	780	781	358
35°	693	694	698	705	705	433
45°	584	590	598	603	595	451
55°	454	463	467	443	436	405
65°	301	320	303	291	286	299
75°	142	152	149	140	136	152
85°	25	27	22	19	18	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	862.6	862.6	862.6	862.6	862.6
2.5°	862.6	862.6	859.2	862.6	863.4
5°	860.1	860.1	856.7	860.1	860.1
7.5°	855.9	855.1	852.6	855.9	855.9
10°	849.2	849.2	845.9	850.1	849.2
12.5°	841.7	840.9	839.2	842.6	841.7
15°	831.7	831.7	829.3	832.6	831.7
17.5°	821.8	820.9	818.4	821.8	821.8
20°	807.6	806.8	805.9	809.3	810.1
22.5°	792.6	791.8	791.0	795.9	795.9
25°	776.0	776.0	775.1	780.1	781.0
27.5°	757.6	757.6	758.5	765.1	764.3
30°	738.5	738.5	740.2	745.2	745.2
32.5°	715.2	716.9	720.2	726.0	726.0
35°	692.7	694.4	698.5	705.2	705.2
37.5°	667.7	670.2	674.4	682.7	684.4
40°	642.8	644.4	649.4	658.6	658.6
42.5°	615.3	616.9	623.6	632.8	631.1
45°	584.5	589.5	597.8	602.8	595.3
47.5°	555.3	558.7	570.3	564.5	552.0
50°	522.0	528.7	540.3	519.5	507.9
52.5°	487.9	495.4	507.9	478.7	472.1
55°	453.8	462.9	467.1	442.9	436.3
57.5°	417.1	427.1	418.8	404.6	398.0
60°	380.5	392.1	379.7	366.3	362.2
62.5°	342.2	355.5	341.4	329.7	323.9
65°	301.4	319.7	303.1	291.4	286.4
67.5°	261.4	280.6	263.1	253.1	249.8
70°	224.0	234.8	226.5	216.5	209.8
72.5°	179.0	189.8	188.2	177.3	173.2
75°	142.4	152.4	149.0	139.9	135.7
77.5°	105.7	116.6	113.2	102.4	100.7
80°	75.8	83.3	77.4	67.4	64.1
82.5°	47.5	53.3	45.8	38.3	36.6
85°	25.0	26.6	21.6	19.1	18.3
87.5°	8.3	9.2	9.2	8.3	8.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)