

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: P259131

Luminaire Tested: **14CZ-LD5-35-SQP-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259131
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-LD5-35-SQP-UNV-L82765-W2A1-U-4500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2317.0 lumens
Efficiency: N/A
Efficacy: 82.8 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

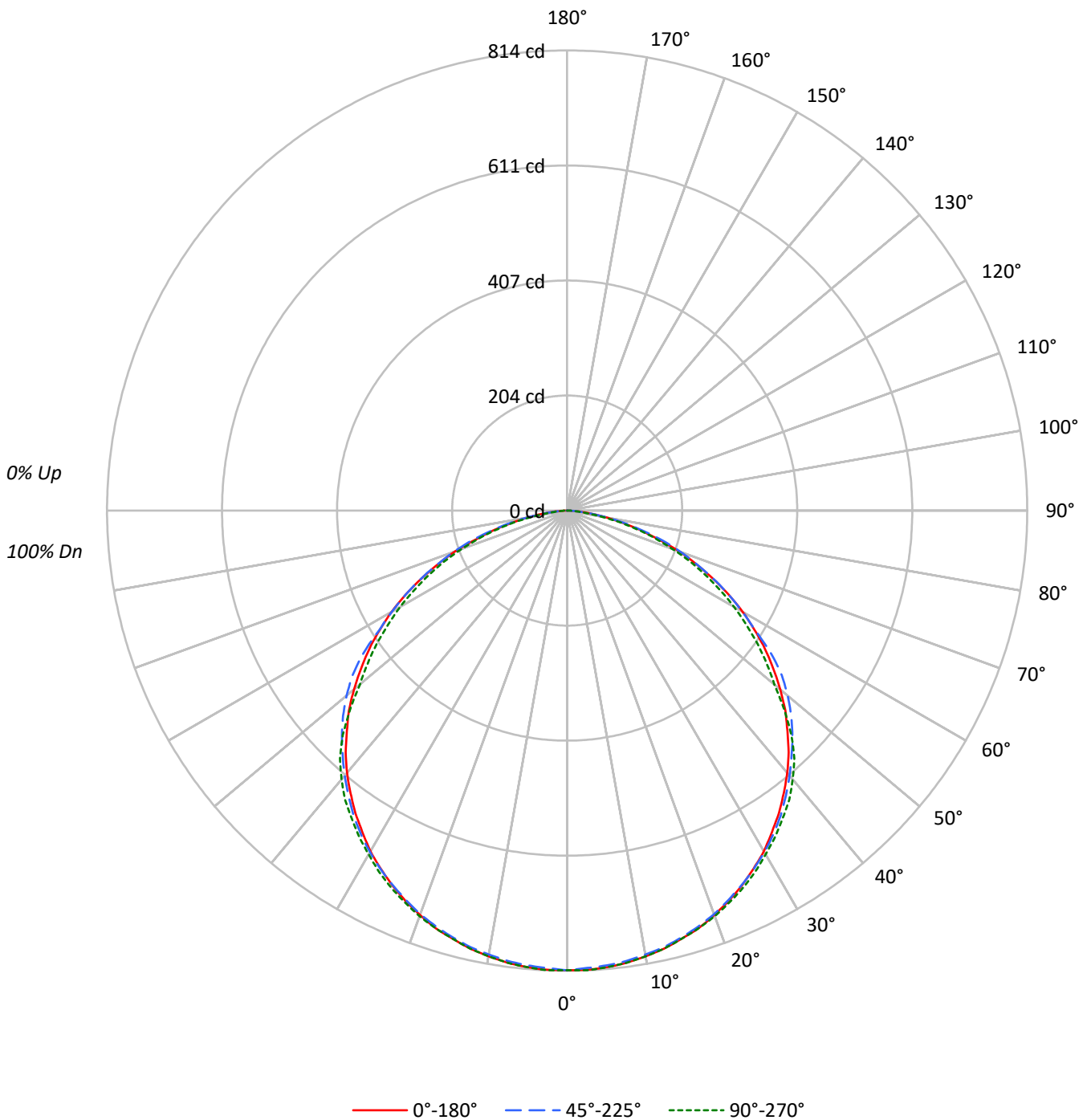
Input Watts (W): 27.993
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2188	2188	2188
5°	2190	2182	2190
10°	2187	2179	2187
15°	2184	2178	2184
20°	2180	2176	2187
25°	2172	2170	2186
30°	2163	2168	2183
35°	2145	2163	2184
40°	2128	2151	2181
45°	2097	2144	2135
50°	2060	2132	2004
55°	2007	2066	1929
60°	1931	1926	1837
65°	1809	1819	1719
70°	1661	1680	1556
75°	1395	1461	1330
80°	1106	1131	936
85°	726	630	534



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.0	3.3
10°-20°	221.3	9.6
20°-30°	337.9	14.6
30°-40°	412.3	17.8
40°-50°	431.2	18.6
50°-60°	381.7	16.5
60°-70°	281.1	12.1
70°-80°	145.5	6.3
80°-90°	29.0	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°	636.2	27.5
0°-40°	1048.6	45.3
0°-60°	1861.4	80.3
0°-90°	2317.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2317.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	813	813	813	813	813	
5°	811	811	808	811	811	77
15°	784	784	782	785	784	221
25°	732	732	731	735	736	337
35°	653	654	658	665	665	408
45°	551	556	564	568	561	425
55°	428	436	440	418	411	382
65°	284	301	286	275	270	281
75°	134	144	140	132	128	143
85°	24	25	20	18	17	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	813.1	813.1	813.1	813.1	813.1
2.5°	813.1	813.1	809.9	813.1	813.9
5°	810.7	810.7	807.6	810.7	810.7
7.5°	806.8	806.0	803.7	806.8	806.8
10°	800.5	800.5	797.4	801.3	800.5
12.5°	793.5	792.7	791.1	794.2	793.5
15°	784.0	784.0	781.7	784.8	784.0
17.5°	774.6	773.8	771.5	774.6	774.6
20°	761.3	760.5	759.7	762.8	763.6
22.5°	747.2	746.4	745.6	750.3	750.3
25°	731.5	731.5	730.7	735.4	736.2
27.5°	714.2	714.2	715.0	721.3	720.5
30°	696.1	696.1	697.7	702.4	702.4
32.5°	674.2	675.7	678.9	684.4	684.4
35°	653.0	654.5	658.5	664.7	664.7
37.5°	629.4	631.8	635.7	643.6	645.1
40°	605.9	607.5	612.2	620.8	620.8
42.5°	580.0	581.6	587.8	596.5	594.9
45°	550.9	555.7	563.5	568.2	561.1
47.5°	523.5	526.6	537.6	532.1	520.3
50°	492.1	498.4	509.3	489.7	478.7
52.5°	459.9	467.0	478.7	451.3	445.0
55°	427.7	436.4	440.3	417.5	411.2
57.5°	393.2	402.6	394.8	381.4	375.1
60°	358.7	369.7	357.9	345.3	341.4
62.5°	322.6	335.1	321.8	310.8	305.3
65°	284.1	301.4	285.7	274.7	270.0
67.5°	246.4	264.5	248.0	238.6	235.4
70°	211.1	221.3	213.5	204.1	197.8
72.5°	168.7	178.9	177.4	167.2	163.2
75°	134.2	143.6	140.5	131.9	127.9
77.5°	99.7	109.9	106.7	96.5	95.0
80°	71.4	78.5	73.0	63.6	60.4
82.5°	44.7	50.2	43.2	36.1	34.5
85°	23.5	25.1	20.4	18.1	17.3
87.5°	7.8	8.6	8.6	7.8	7.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)