

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: P259201

Luminaire Tested: **14CZ-LD5-44-SQP-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259201
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-L92765-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: 2407.0 lumens
Efficiency: N/A
Efficacy: 67.4 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

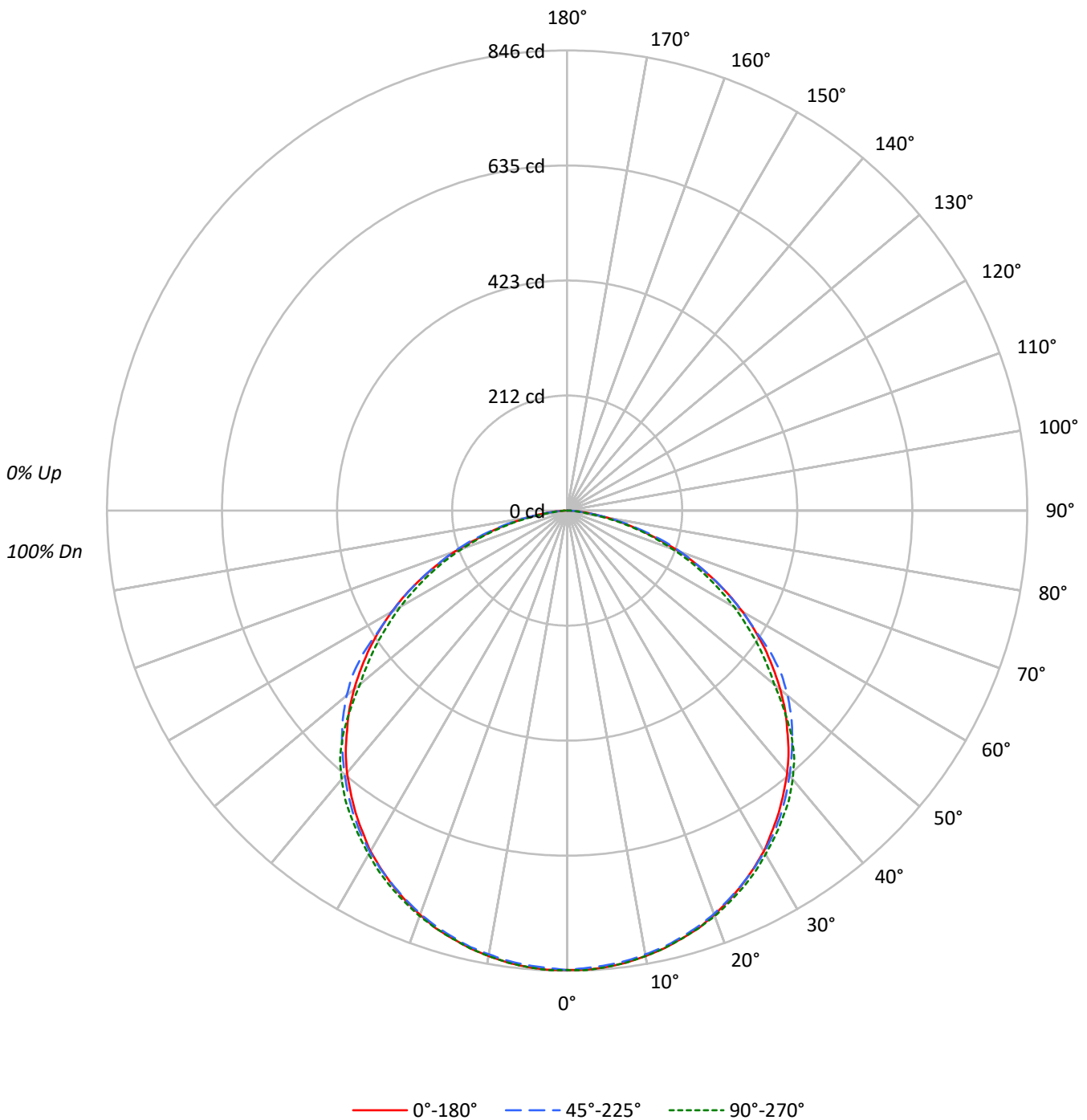
Input Watts (W): 35.712
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2273	2273	2273
5°	2275	2266	2275
10°	2272	2264	2272
15°	2269	2262	2269
20°	2265	2260	2272
25°	2256	2254	2271
30°	2247	2252	2267
35°	2228	2247	2269
40°	2211	2234	2265
45°	2178	2228	2218
50°	2140	2215	2082
55°	2084	2146	2004
60°	2005	2001	1909
65°	1879	1890	1786
70°	1725	1745	1617
75°	1449	1517	1382
80°	1150	1175	973
85°	756	655	553



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.0	3.3
10°-20°	229.9	9.6
20°-30°	351.1	14.6
30°-40°	428.3	17.8
40°-50°	447.9	18.6
50°-60°	396.5	16.5
60°-70°	292.0	12.1
70°-80°	151.2	6.3
80°-90°	30.1	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°	661.0	27.5
0°-40°	1089.3	45.3
0°-60°	1933.7	80.3
0°-90°	2407.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2407.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	845	845	845	845	845	
5°	842	842	839	842	842	80
15°	814	814	812	815	814	230
25°	760	760	759	764	765	350
35°	678	680	684	691	691	424
45°	572	577	585	590	583	442
55°	444	453	457	434	427	396
65°	295	313	297	285	280	292
75°	139	149	146	137	133	149
85°	24	26	21	19	18	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	844.7	844.7	844.7	844.7	844.7
2.5°	844.7	844.7	841.4	844.7	845.5
5°	842.2	842.2	839.0	842.2	842.2
7.5°	838.1	837.3	834.9	838.1	838.1
10°	831.6	831.6	828.4	832.4	831.6
12.5°	824.3	823.5	821.8	825.1	824.3
15°	814.5	814.5	812.0	815.3	814.5
17.5°	804.7	803.9	801.4	804.7	804.7
20°	790.8	790.0	789.2	792.5	793.3
22.5°	776.2	775.4	774.5	779.4	779.4
25°	759.9	759.9	759.1	763.9	764.8
27.5°	741.9	741.9	742.7	749.3	748.5
30°	723.2	723.2	724.8	729.7	729.7
32.5°	700.3	702.0	705.2	710.9	710.9
35°	678.3	680.0	684.0	690.6	690.6
37.5°	653.9	656.3	660.4	668.6	670.2
40°	629.4	631.0	635.9	644.9	644.9
42.5°	602.5	604.1	610.7	619.6	618.0
45°	572.3	577.2	585.4	590.3	582.9
47.5°	543.8	547.1	558.5	552.8	540.5
50°	511.2	517.7	529.1	508.8	497.3
52.5°	477.8	485.1	497.3	468.8	462.3
55°	444.3	453.3	457.4	433.7	427.2
57.5°	408.5	418.3	410.1	396.2	389.7
60°	372.6	384.0	371.8	358.7	354.7
62.5°	335.1	348.1	334.3	322.9	317.2
65°	295.1	313.1	296.8	285.4	280.5
67.5°	256.0	274.8	257.6	247.9	244.6
70°	219.3	229.9	221.8	212.0	205.5
72.5°	175.3	185.9	184.3	173.7	169.6
75°	139.4	149.2	145.9	137.0	132.9
77.5°	103.5	114.1	110.9	100.3	98.7
80°	74.2	81.5	75.8	66.0	62.8
82.5°	46.5	52.2	44.8	37.5	35.9
85°	24.5	26.1	21.2	18.8	17.9
87.5°	8.2	9.0	9.0	8.2	8.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)