

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: P258786

Luminaire Tested: **14CZ-LD5-29-S-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258786
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35112)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-29-S-UNV-L82765-W2A1-U-4500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3047.0 lumens
Efficiency: N/A
Efficacy: 135.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

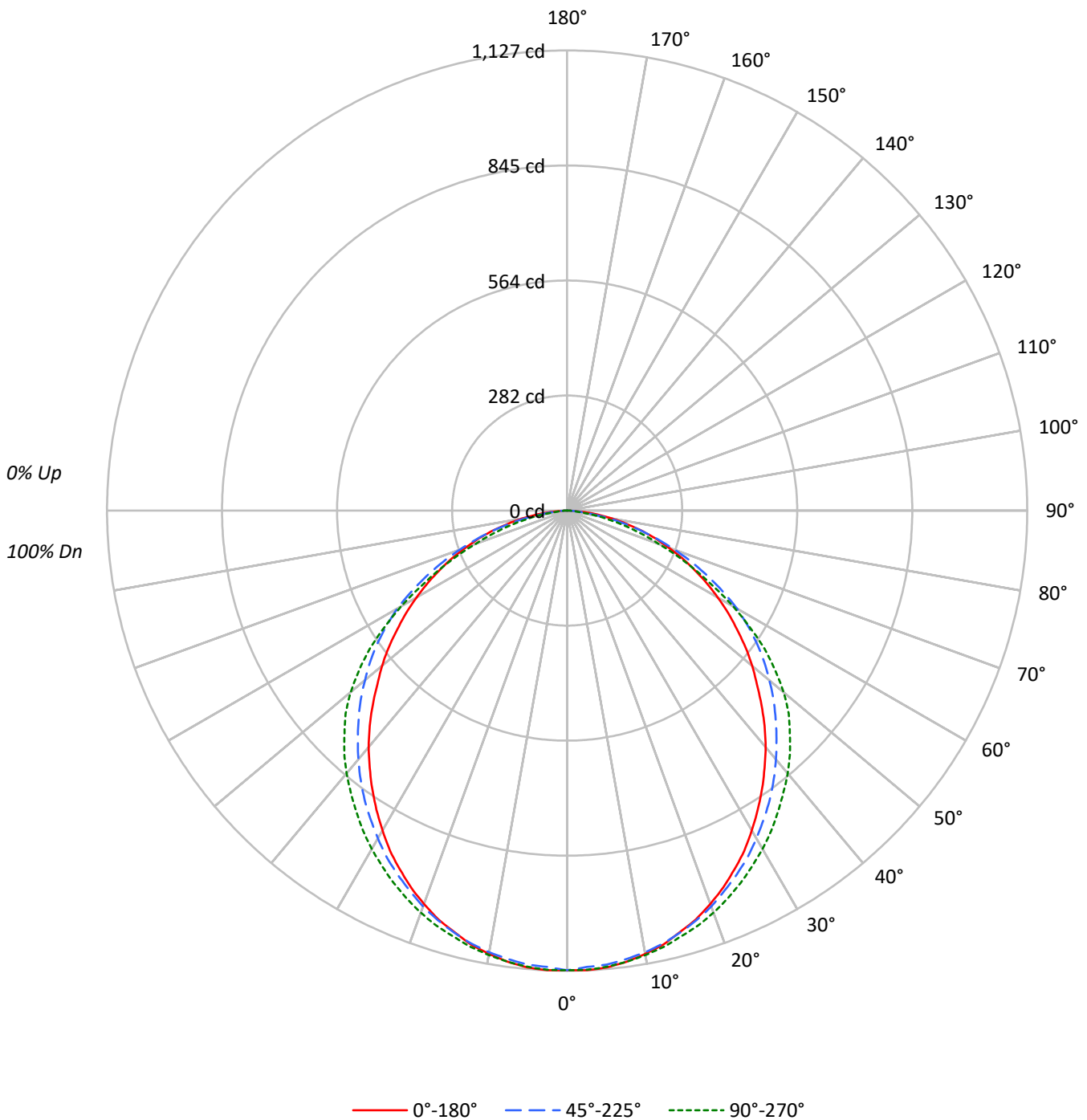
Input Watts (W): 22.506
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	100	97	106	102	98	95	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3029	3029	3029
5°	3033	3015	3029
10°	3013	3001	3020
15°	2977	2981	3007
20°	2936	2955	3002
25°	2878	2919	2987
30°	2810	2881	2974
35°	2734	2841	2957
40°	2657	2795	2952
45°	2563	2749	2935
50°	2478	2706	2899
55°	2382	2662	2771
60°	2294	2587	2528
65°	2196	2421	2222
70°	2072	2201	1880
75°	1934	1906	1553
80°	1705	1472	1136
85°	1340	713	630



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.4	3.5
10°-20°	303.0	9.9
20°-30°	454.7	14.9
30°-40°	542.1	17.8
40°-50°	558.4	18.3
50°-60°	497.6	16.3
60°-70°	358.6	11.8
70°-80°	187.5	6.2
80°-90°	38.8	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°	864.0	28.4
0°-40°	1406.1	46.1
0°-60°	2462.2	80.8
0°-90°	3047.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3047.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1126	1126	1126	1126	1126	
5°	1123	1120	1116	1123	1122	107
15°	1068	1070	1070	1081	1079	302
25°	969	975	983	1002	1006	447
35°	832	843	865	893	900	521
45°	673	688	722	763	771	520
55°	508	524	568	593	591	455
65°	345	357	380	362	349	342
75°	186	196	183	159	149	197
85°	43	38	23	20	20	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1125.6	1125.6	1125.6	1125.6	1125.6
2.5°	1126.9	1124.2	1118.8	1125.6	1125.6
5°	1122.8	1120.1	1116.1	1122.8	1121.5
7.5°	1114.7	1112.0	1107.9	1116.1	1114.7
10°	1102.5	1101.1	1098.4	1106.6	1105.2
12.5°	1088.9	1087.5	1086.2	1094.3	1094.3
15°	1068.5	1069.9	1069.9	1080.8	1079.4
17.5°	1049.5	1050.9	1052.2	1065.8	1065.8
20°	1025.1	1026.4	1031.9	1046.8	1048.2
22.5°	999.3	1000.7	1007.4	1025.1	1027.8
25°	969.4	974.9	983.0	1002.0	1006.1
27.5°	939.6	943.6	957.2	978.9	981.6
30°	904.3	912.4	927.3	951.8	957.2
32.5°	869.0	878.5	896.1	923.3	930.0
35°	832.3	843.2	864.9	893.4	900.2
37.5°	794.3	803.8	830.9	860.8	870.3
40°	756.3	765.8	795.6	829.6	840.4
42.5°	715.5	729.1	759.0	797.0	807.9
45°	673.4	688.4	722.3	763.0	771.2
47.5°	630.0	646.3	685.7	726.4	735.9
50°	592.0	606.9	646.3	685.7	692.4
52.5°	551.2	564.8	608.3	640.9	642.2
55°	507.8	524.1	567.5	593.3	590.6
57.5°	468.4	482.0	524.1	537.7	529.5
60°	426.3	438.5	480.6	482.0	469.8
62.5°	385.6	397.8	430.4	420.9	406.0
65°	344.9	357.1	380.2	362.5	348.9
67.5°	305.5	316.4	329.9	306.8	293.3
70°	263.4	278.3	279.7	252.5	239.0
72.5°	226.7	234.9	232.2	206.4	194.2
75°	186.0	195.5	183.3	158.9	149.4
77.5°	148.0	154.8	138.5	115.4	108.6
80°	110.0	114.0	95.0	77.4	73.3
82.5°	74.7	74.7	54.3	42.1	38.0
85°	43.4	38.0	23.1	20.4	20.4
87.5°	14.9	9.5	9.5	9.5	9.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)