

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: P258842

Luminaire Tested: **14CZ-LD5-29-S-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258842
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-L92765-W2A1-U-5500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2815.0 lumens
Efficiency: N/A
Efficacy: 123.5 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

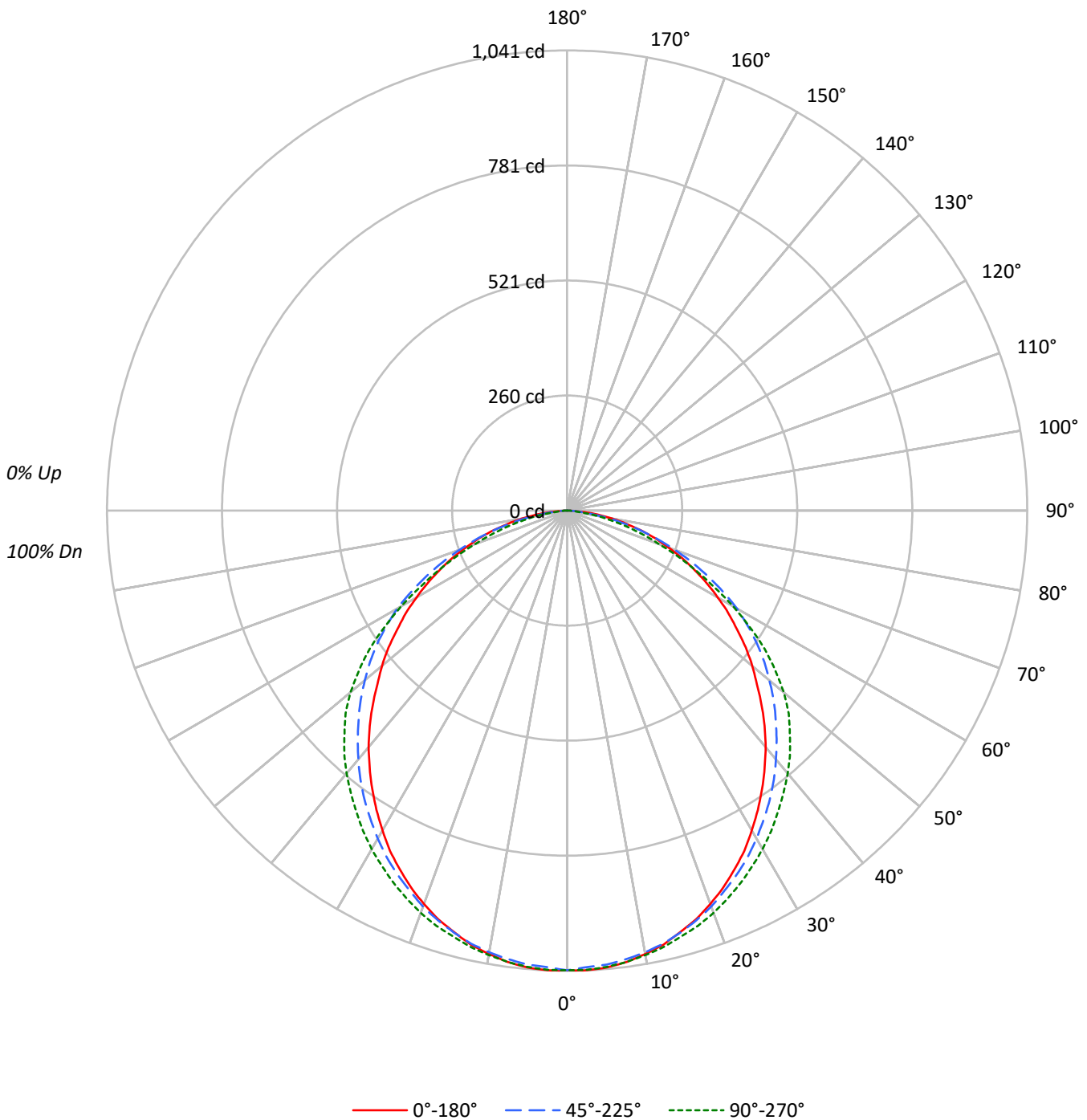
Input Watts (W): 22.785
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2798	2798	2798
5°	2802	2785	2799
10°	2783	2773	2790
15°	2750	2754	2778
20°	2712	2730	2773
25°	2659	2697	2760
30°	2596	2662	2748
35°	2526	2625	2732
40°	2454	2582	2727
45°	2368	2539	2712
50°	2290	2500	2678
55°	2201	2460	2560
60°	2120	2390	2336
65°	2029	2236	2053
70°	1914	2033	1737
75°	1786	1760	1435
80°	1574	1361	1049
85°	1238	658	580



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.3	3.5
10°-20°	279.9	9.9
20°-30°	420.1	14.9
30°-40°	500.8	17.8
40°-50°	515.9	18.3
50°-60°	459.7	16.3
60°-70°	331.3	11.8
70°-80°	173.2	6.2
80°-90°	35.8	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°	798.3	28.4
0°-40°	1299.1	46.1
0°-60°	2274.7	80.8
0°-90°	2815.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2815.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1040	1040	1040	1040	1040	
5°	1037	1035	1031	1037	1036	98
15°	987	988	988	998	997	279
25°	896	901	908	926	930	413
35°	769	779	799	825	832	481
45°	622	636	667	705	712	480
55°	469	484	524	548	546	421
65°	319	330	351	335	322	316
75°	172	181	169	147	138	182
85°	40	35	21	19	19	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1039.9	1039.9	1039.9	1039.9	1039.9
2.5°	1041.1	1038.6	1033.6	1039.9	1039.9
5°	1037.4	1034.8	1031.1	1037.4	1036.1
7.5°	1029.8	1027.3	1023.6	1031.1	1029.8
10°	1018.5	1017.3	1014.8	1022.3	1021.0
12.5°	1006.0	1004.7	1003.5	1011.0	1011.0
15°	987.2	988.4	988.4	998.5	997.2
17.5°	969.6	970.9	972.1	984.7	984.7
20°	947.0	948.3	953.3	967.1	968.4
22.5°	923.2	924.5	930.7	947.0	949.5
25°	895.6	900.6	908.2	925.7	929.5
27.5°	868.0	871.8	884.3	904.4	906.9
30°	835.4	842.9	856.7	879.3	884.3
32.5°	802.8	811.6	827.9	853.0	859.2
35°	768.9	779.0	799.0	825.4	831.6
37.5°	733.8	742.6	767.7	795.3	804.0
40°	698.7	707.5	735.1	766.4	776.4
42.5°	661.0	673.6	701.2	736.3	746.3
45°	622.2	636.0	667.3	704.9	712.5
47.5°	582.0	597.1	633.5	671.1	679.9
50°	546.9	560.7	597.1	633.5	639.7
52.5°	509.3	521.8	562.0	592.1	593.3
55°	469.1	484.2	524.3	548.2	545.6
57.5°	432.8	445.3	484.2	496.7	489.2
60°	393.9	405.2	444.0	445.3	434.0
62.5°	356.2	367.5	397.6	388.9	375.1
65°	318.6	329.9	351.2	334.9	322.4
67.5°	282.2	292.3	304.8	283.5	270.9
70°	243.3	257.1	258.4	233.3	220.8
72.5°	209.5	217.0	214.5	190.7	179.4
75°	171.8	180.6	169.3	146.8	138.0
77.5°	136.7	143.0	127.9	106.6	100.3
80°	101.6	105.4	87.8	71.5	67.7
82.5°	69.0	69.0	50.2	38.9	35.1
85°	40.1	35.1	21.3	18.8	18.8
87.5°	13.8	8.8	8.8	8.8	8.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)