

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: P258617

Luminaire Tested: **14CZ-LD5-29-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258617
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35573)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-29-UNV-L82765-W2A1-U-4000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2935.0 lumens
Efficiency: N/A
Efficacy: 131.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

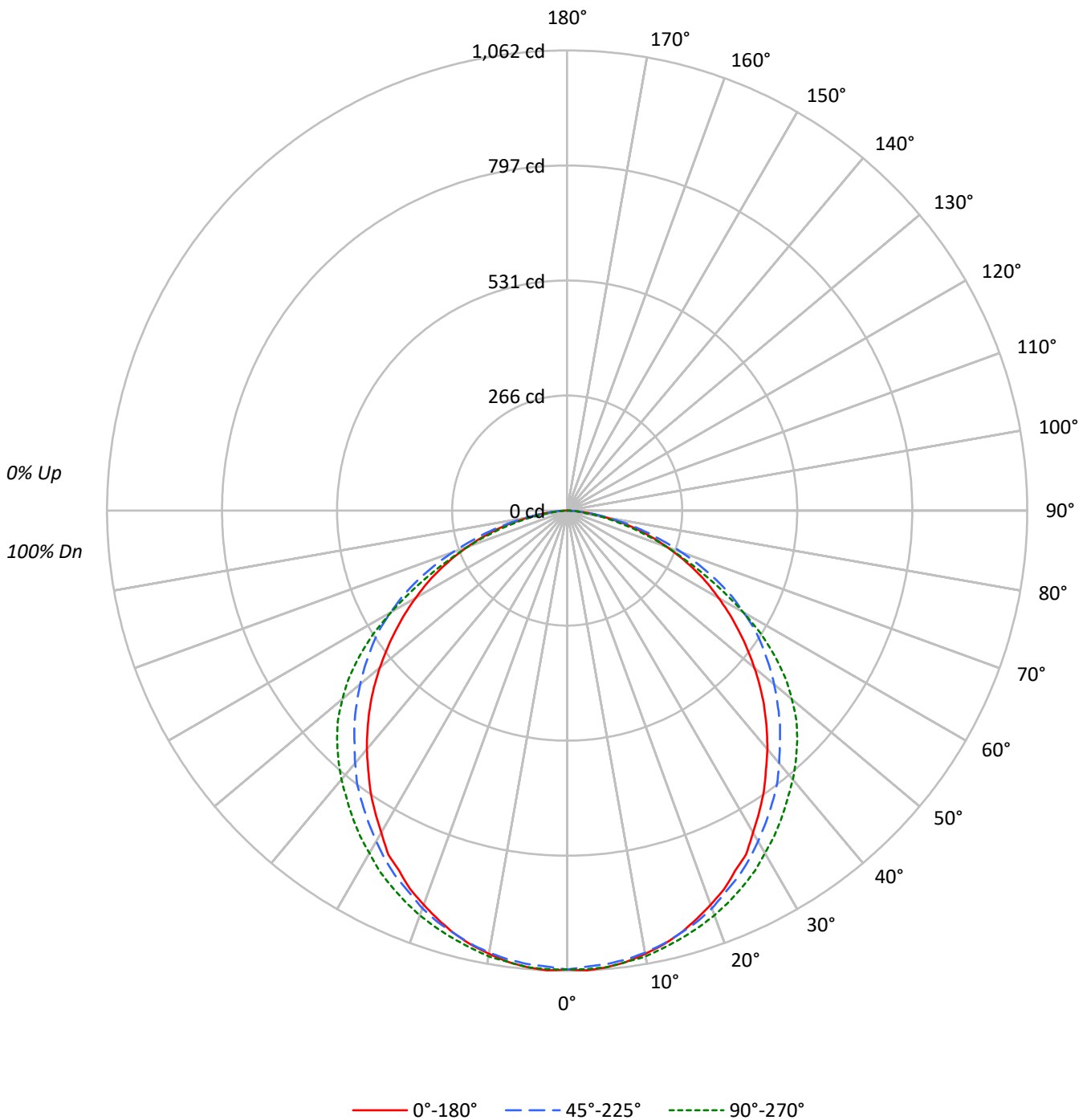
Input Watts (W): 22.413
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	66	88	78	71	65	75	69	64	73	67	63	70	66	62	59
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	47	40	36	34
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	29	42	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2850	2850	2850
5°	2857	2838	2857
10°	2839	2831	2855
15°	2814	2814	2846
20°	2772	2797	2846
25°	2724	2771	2844
30°	2666	2738	2837
35°	2600	2710	2838
40°	2526	2674	2846
45°	2450	2643	2858
50°	2362	2611	2835
55°	2267	2586	2743
60°	2173	2531	2523
65°	2073	2423	2211
70°	1924	2209	1913
75°	1745	1926	1579
80°	1390	1525	1165
85°	982	849	670



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.2	3.4
10°-20°	286.3	9.8
20°-30°	431.7	14.7
30°-40°	517.4	17.6
40°-50°	537.0	18.3
50°-60°	484.3	16.5
60°-70°	353.3	12.0
70°-80°	185.4	6.3
80°-90°	39.5	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°	818.2	27.9
0°-40°	1335.6	45.5
0°-60°	2356.8	80.3
0°-90°	2935.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2935.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1059	1059	1059	1059	1059	
5°	1058	1055	1050	1058	1058	100
15°	1010	1010	1010	1022	1022	284
25°	917	922	933	954	958	423
35°	792	800	825	855	864	494
45°	644	657	694	736	751	496
55°	483	501	551	588	585	433
65°	326	344	380	366	347	322
75°	168	191	185	161	152	176
85°	32	39	28	23	22	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1059.2	1059.2	1059.2	1059.2	1059.2
2.5°	1062.1	1059.2	1053.4	1059.2	1059.2
5°	1057.7	1054.8	1050.5	1057.7	1057.7
7.5°	1050.5	1047.6	1044.7	1051.9	1050.5
10°	1038.9	1037.5	1036.0	1044.7	1044.7
12.5°	1025.9	1025.9	1024.4	1034.6	1033.1
15°	1010.0	1010.0	1010.0	1021.5	1021.5
17.5°	989.7	992.6	995.5	1008.5	1008.5
20°	968.0	970.9	976.7	992.6	994.0
22.5°	946.3	947.7	953.5	972.3	976.7
25°	917.4	921.7	933.3	953.5	957.9
27.5°	894.2	895.7	908.7	931.8	937.6
30°	858.0	868.2	881.2	907.2	913.0
32.5°	824.8	833.4	853.7	881.2	889.9
35°	791.5	800.2	824.8	855.1	863.8
37.5°	753.9	766.9	795.8	826.2	836.3
40°	719.1	730.7	761.1	798.7	810.3
42.5°	681.5	693.1	726.4	768.3	781.3
45°	643.9	656.9	694.5	736.5	751.0
47.5°	604.8	619.3	658.4	704.7	717.7
50°	564.3	580.2	623.6	671.4	677.2
52.5°	523.8	541.2	587.5	629.4	635.2
55°	483.3	500.6	551.3	587.5	584.6
57.5°	444.2	463.0	515.1	533.9	531.0
60°	403.7	424.0	470.3	478.9	468.8
62.5°	366.1	384.9	428.3	421.1	408.0
65°	325.6	344.4	380.5	366.1	347.3
67.5°	285.0	308.2	331.3	306.8	292.3
70°	244.5	270.6	280.7	256.1	243.1
72.5°	205.5	233.0	230.1	205.5	196.8
75°	167.8	191.0	185.2	160.6	151.9
77.5°	127.3	153.4	140.4	120.1	112.9
80°	89.7	112.9	98.4	81.0	75.2
82.5°	59.3	75.2	60.8	47.7	43.4
85°	31.8	39.1	27.5	23.2	21.7
87.5°	13.0	11.6	10.1	10.1	8.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)