

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: P258783

Luminaire Tested: **14CZ-LD5-29-S-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258783
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-3000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2832.0 lumens
Efficiency: N/A
Efficacy: 129.0 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

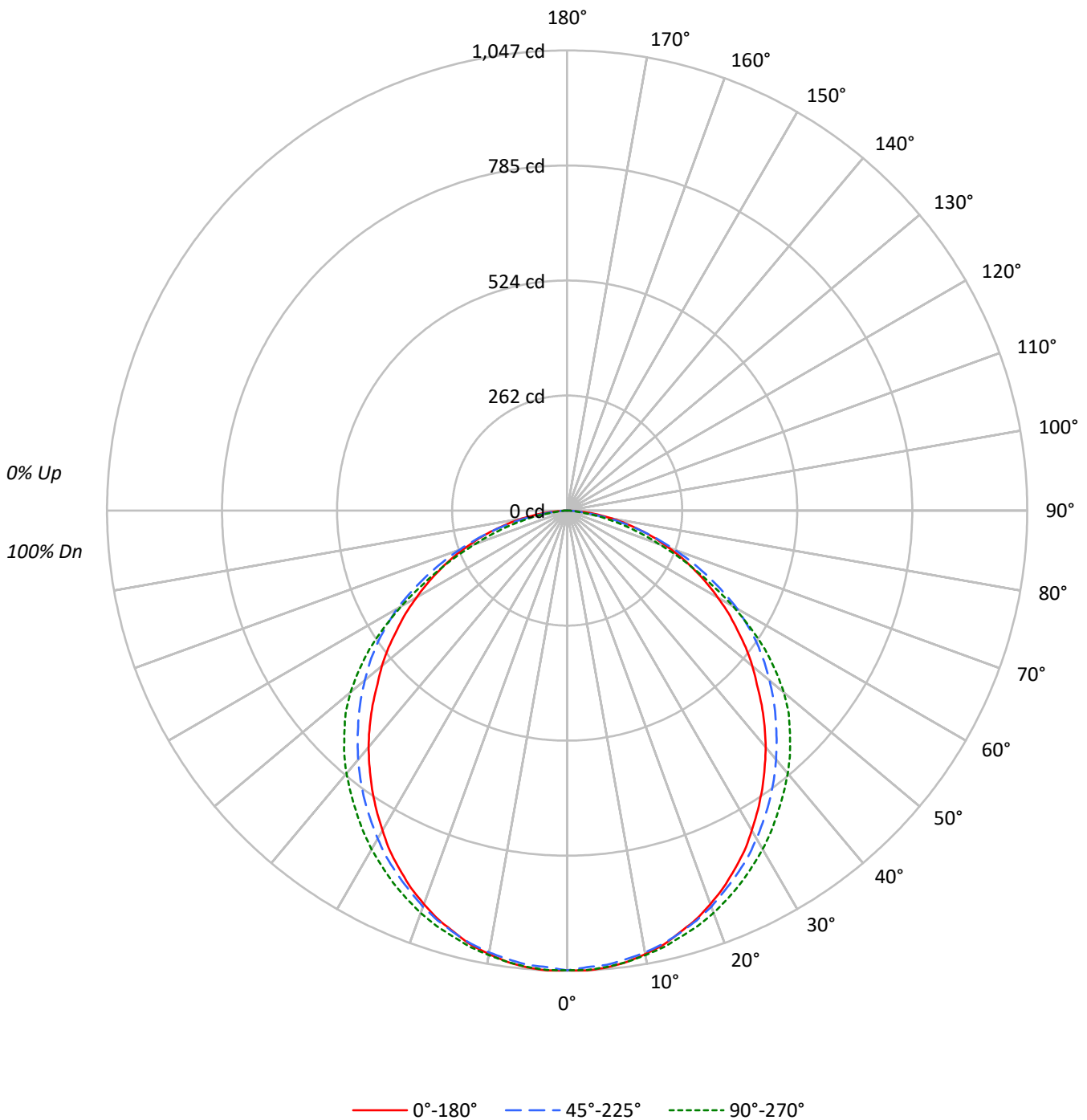
Input Watts (W): 21.948
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P258783

CATALOG NUMBER: 14CZ-LD5-29-S-UNV-L82765-W2A1-U-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P258783

CATALOG NUMBER: 14CZ-LD5-29-S-UNV-L82765-W2A1-U-3000K

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°	2815	2815	2815
5°	2819	2802	2816
10°	2800	2790	2807
15°	2767	2770	2795
20°	2729	2747	2790
25°	2675	2713	2776
30°	2611	2678	2765
35°	2541	2641	2749
40°	2469	2598	2744
45°	2382	2555	2728
50°	2303	2515	2694
55°	2214	2475	2575
60°	2132	2404	2350
65°	2041	2250	2065
70°	1926	2046	1747
75°	1798	1772	1443
80°	1584	1368	1055
85°	1247	664	584



TEST NUMBER: P258783

CATALOG NUMBER: 14CZ-LD5-29-S-UNV-L82765-W2A1-U-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.8	3.5
10°-20°	281.6	9.9
20°-30°	422.6	14.9
30°-40°	503.8	17.8
40°-50°	519.0	18.3
50°-60°	462.5	16.3
60°-70°	333.2	11.8
70°-80°	174.3	6.2
80°-90°	36.0	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°	803.1	28.4
0°-40°	1306.9	46.1
0°-60°	2288.4	80.8
0°-90°	2832.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2832.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1046	1046	1046	1046	1046	
5°	1044	1041	1037	1044	1042	99
15°	993	994	994	1004	1003	280
25°	901	906	914	931	935	415
35°	774	784	804	830	837	484
45°	626	640	671	709	717	483
55°	472	487	528	552	549	423
65°	320	332	353	337	324	318
75°	173	182	170	148	139	183
85°	40	35	22	19	19	48
90°	0	0	0	0	0	



TEST NUMBER: P258783

CATALOG NUMBER: 14CZ-LD5-29-S-UNV-L82765-W2A1-U-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1046.1	1046.1	1046.1	1046.1	1046.1
2.5°	1047.4	1044.9	1039.8	1046.1	1046.1
5°	1043.6	1041.1	1037.3	1043.6	1042.4
7.5°	1036.0	1033.5	1029.7	1037.3	1036.0
10°	1024.7	1023.4	1020.9	1028.5	1027.2
12.5°	1012.1	1010.8	1009.5	1017.1	1017.1
15°	993.1	994.4	994.4	1004.5	1003.2
17.5°	975.5	976.7	978.0	990.6	990.6
20°	952.8	954.0	959.1	972.9	974.2
22.5°	928.8	930.0	936.4	952.8	955.3
25°	901.0	906.1	913.6	931.3	935.1
27.5°	873.3	877.0	889.7	909.9	912.4
30°	840.4	848.0	861.9	884.6	889.7
32.5°	807.6	816.5	832.9	858.1	864.4
35°	773.6	783.7	803.9	830.4	836.7
37.5°	738.2	747.1	772.3	800.1	808.9
40°	702.9	711.7	739.5	771.0	781.1
42.5°	665.0	677.7	705.4	740.8	750.8
45°	625.9	639.8	671.3	709.2	716.8
47.5°	585.5	600.7	637.3	675.1	684.0
50°	550.2	564.1	600.7	637.3	643.6
52.5°	512.3	525.0	565.3	595.6	596.9
55°	472.0	487.1	527.5	551.5	548.9
57.5°	435.4	448.0	487.1	499.7	492.2
60°	396.2	407.6	446.7	448.0	436.6
62.5°	358.4	369.7	400.0	391.2	377.3
65°	320.5	331.9	353.3	336.9	324.3
67.5°	283.9	294.0	306.6	285.2	272.6
70°	244.8	258.7	260.0	234.7	222.1
72.5°	210.7	218.3	215.8	191.8	180.5
75°	172.9	181.7	170.4	147.6	138.8
77.5°	137.6	143.9	128.7	107.3	101.0
80°	102.2	106.0	88.3	71.9	68.1
82.5°	69.4	69.4	50.5	39.1	35.3
85°	40.4	35.3	21.5	18.9	18.9
87.5°	13.9	8.8	8.8	8.8	8.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)