

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: P258621

Luminaire Tested: **14CZ-LD5-29-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258621
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-5700K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3065.0 lumens
Efficiency: N/A
Efficacy: 134.5 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

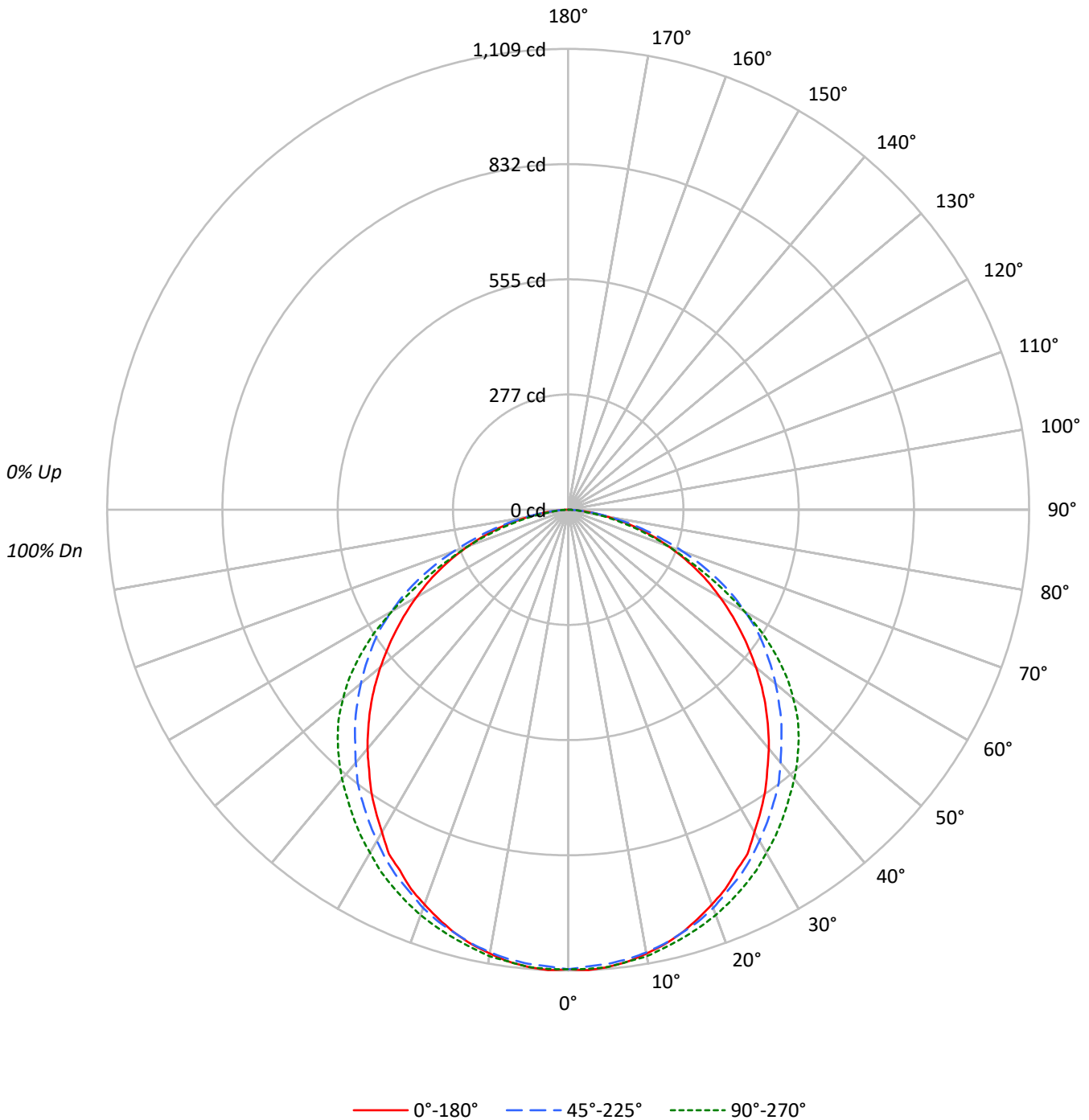
Input Watts (W): 22.785
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P258621

CATALOG NUMBER: 14CZ-LD5-29-UNV-L82765-W2A1-U-5700K

Luminous Intensity Polar Plot





TEST NUMBER: P258621

CATALOG NUMBER: 14CZ-LD5-29-UNV-L82765-W2A1-U-5700K

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°	2976	2976	2976
5°	2984	2963	2984
10°	2964	2956	2981
15°	2938	2938	2972
20°	2895	2921	2973
25°	2844	2894	2970
30°	2784	2859	2963
35°	2715	2829	2963
40°	2638	2792	2973
45°	2559	2760	2984
50°	2467	2727	2961
55°	2368	2701	2864
60°	2269	2643	2635
65°	2165	2530	2309
70°	2009	2306	1998
75°	1823	2011	1650
80°	1452	1592	1218
85°	1025	886	701



TEST NUMBER: P258621

CATALOG NUMBER: 14CZ-LD5-29-UNV-L82765-W2A1-U-5700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.7	3.4
10°-20°	299.0	9.8
20°-30°	450.8	14.7
30°-40°	540.3	17.6
40°-50°	560.7	18.3
50°-60°	505.8	16.5
60°-70°	368.9	12.0
70°-80°	193.6	6.3
80°-90°	41.3	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°	854.4	27.9
0°-40°	1394.7	45.5
0°-60°	2461.2	80.3
0°-90°	3065.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3065.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1106	1106	1106	1106	1106	
5°	1105	1102	1097	1105	1105	105
15°	1055	1055	1055	1067	1067	297
25°	958	962	975	996	1000	442
35°	826	836	861	893	902	516
45°	672	686	725	769	784	518
55°	505	523	576	614	610	452
65°	340	360	397	382	363	336
75°	175	200	193	168	159	184
85°	33	41	29	24	23	42
90°	0	0	0	0	0	



TEST NUMBER: P258621

CATALOG NUMBER: 14CZ-LD5-29-UNV-L82765-W2A1-U-5700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1106.1	1106.1	1106.1	1106.1	1106.1
2.5°	1109.1	1106.1	1100.0	1106.1	1106.1
5°	1104.6	1101.5	1097.0	1104.6	1104.6
7.5°	1097.0	1094.0	1091.0	1098.5	1097.0
10°	1084.9	1083.4	1081.9	1091.0	1091.0
12.5°	1071.3	1071.3	1069.8	1080.4	1078.9
15°	1054.7	1054.7	1054.7	1066.8	1066.8
17.5°	1033.5	1036.6	1039.6	1053.2	1053.2
20°	1010.9	1013.9	1019.9	1036.6	1038.1
22.5°	988.2	989.7	995.8	1015.4	1019.9
25°	958.0	962.5	974.6	995.8	1000.3
27.5°	933.8	935.3	948.9	973.1	979.1
30°	896.0	906.6	920.2	947.4	953.5
32.5°	861.3	870.4	891.5	920.2	929.3
35°	826.5	835.6	861.3	893.0	902.1
37.5°	787.2	800.8	831.1	862.8	873.4
40°	751.0	763.1	794.8	834.1	846.2
42.5°	711.7	723.8	758.5	802.4	816.0
45°	672.4	686.0	725.3	769.1	784.2
47.5°	631.6	646.7	687.5	735.9	749.5
50°	589.3	605.9	651.3	701.1	707.2
52.5°	547.0	565.1	613.5	657.3	663.3
55°	504.7	522.8	575.7	613.5	610.5
57.5°	463.9	483.5	537.9	557.6	554.5
60°	421.6	442.7	491.1	500.1	489.6
62.5°	382.3	401.9	447.3	439.7	426.1
65°	340.0	359.6	397.4	382.3	362.6
67.5°	297.7	321.8	346.0	320.3	305.2
70°	255.4	282.6	293.1	267.5	253.9
72.5°	214.6	243.3	240.3	214.6	205.5
75°	175.3	199.5	193.4	167.7	158.7
77.5°	133.0	160.2	146.6	125.4	117.9
80°	93.7	117.9	102.7	84.6	78.6
82.5°	62.0	78.6	63.5	49.9	45.3
85°	33.2	40.8	28.7	24.2	22.7
87.5°	13.6	12.1	10.6	10.6	9.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)