

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: P259289

Luminaire Tested: **22CZ-LD5-29-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259289
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25706)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-29-UNV-L82765-W2A1-U-4000K
Description: CRUZE 2x2 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: 2845.0 lumens
Efficiency: N/A
Efficacy: 134.8 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.26 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

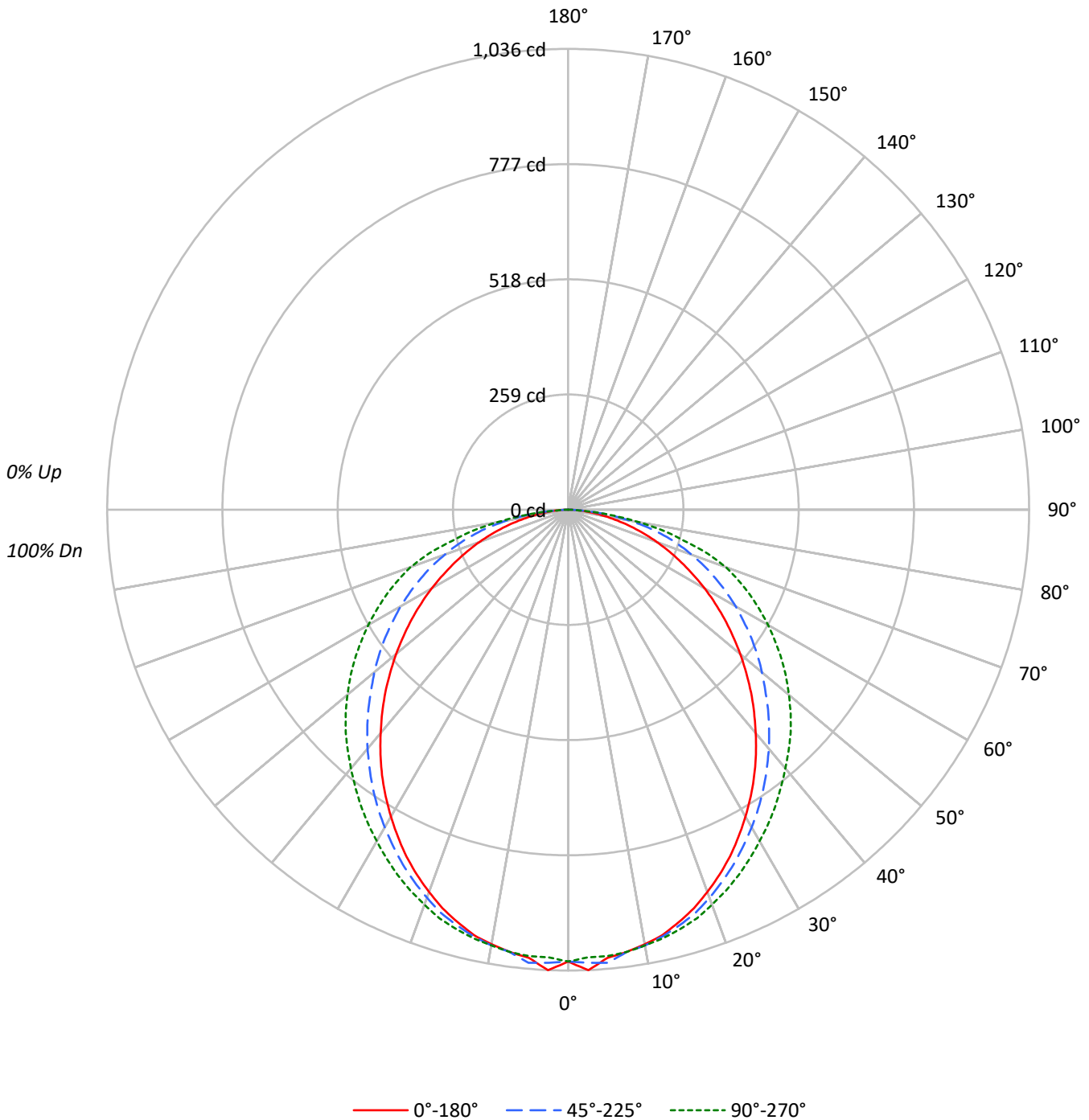
Input Watts (W): 21.111
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P259289

CATALOG NUMBER: 22CZ-LD5-29-UNV-L82765-W2A1-U-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P259289

CATALOG NUMBER: 22CZ-LD5-29-UNV-L82765-W2A1-U-4000K

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	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	90	79	70	64	87	77	69	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2733	2733	2733
5°	2732	2762	2721
10°	2711	2718	2718
15°	2675	2694	2717
20°	2619	2658	2706
25°	2555	2613	2691
30°	2476	2562	2674
35°	2395	2513	2668
40°	2304	2464	2668
45°	2211	2417	2691
50°	2114	2380	2711
55°	2012	2356	2746
60°	1906	2338	2792
65°	1788	2325	2863
70°	1666	2319	2961
75°	1511	2315	2805
80°	1308	2143	2487
85°	1112	1624	1581



TEST NUMBER: P259289

CATALOG NUMBER: 22CZ-LD5-29-UNV-L82765-W2A1-U-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.3	3.4
10°-20°	272.8	9.6
20°-30°	405.8	14.3
30°-40°	480.0	16.9
40°-50°	493.3	17.3
50°-60°	450.8	15.8
60°-70°	360.6	12.7
70°-80°	226.3	8.0
80°-90°	59.0	2.1
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°	775.0	27.2
0°-40°	1255.0	44.1
0°-60°	2199.1	77.3
0°-90°	2845.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2845.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1016	1016	1016	1016	1016	
5°	1011	1011	1022	1016	1007	96
15°	960	962	967	973	975	270
25°	860	866	880	895	906	396
35°	729	739	765	794	812	456
45°	581	596	635	682	707	448
55°	429	450	502	558	585	384
65°	281	306	365	421	450	279
75°	145	173	223	256	270	154
85°	36	46	53	51	51	42
90°	0	0	0	0	0	



TEST NUMBER: P259289

CATALOG NUMBER: 22CZ-LD5-29-UNV-L82765-W2A1-U-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1015.5	1015.5	1015.5	1015.5	1015.5
2.5°	1036.2	1032.1	1019.6	1011.3	1007.2
5°	1011.3	1011.3	1022.4	1015.5	1007.2
7.5°	1003.0	1003.0	1003.0	1023.8	1003.0
10°	992.0	993.3	994.7	1003.0	994.7
12.5°	979.5	979.5	982.3	985.0	986.4
15°	960.1	961.5	967.1	972.6	975.4
17.5°	939.4	943.5	950.5	957.4	962.9
20°	914.5	920.0	928.3	939.4	944.9
22.5°	888.2	893.7	904.8	917.2	926.9
25°	860.5	866.1	879.9	895.1	906.2
27.5°	828.7	835.6	852.2	873.0	884.0
30°	796.9	805.2	824.6	848.1	860.5
32.5°	763.7	773.4	795.5	821.8	837.0
35°	729.1	738.8	765.1	794.1	812.1
37.5°	693.1	704.2	733.2	766.4	785.8
40°	655.8	668.2	701.4	737.4	759.5
42.5°	618.4	632.3	668.2	711.1	733.2
45°	581.1	596.3	635.0	682.1	707.0
47.5°	542.3	560.3	600.4	653.0	677.9
50°	505.0	523.0	568.6	622.6	647.5
52.5°	466.2	487.0	535.4	590.7	617.0
55°	428.9	449.6	502.2	557.5	585.2
57.5°	391.5	412.3	467.6	524.3	552.0
60°	354.2	376.3	434.4	489.8	518.8
62.5°	316.8	340.3	399.8	456.5	484.2
65°	280.8	305.7	365.2	420.6	449.6
67.5°	246.3	272.5	330.7	384.6	413.7
70°	211.7	238.0	294.7	347.3	376.3
72.5°	178.5	204.8	260.1	307.1	329.3
75°	145.3	172.9	222.7	255.9	269.8
77.5°	113.4	141.1	184.0	206.1	221.4
80°	84.4	107.9	138.3	155.0	160.5
82.5°	58.1	77.5	96.8	101.0	103.8
85°	36.0	45.7	52.6	51.2	51.2
87.5°	16.6	18.0	15.2	11.1	6.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)