

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: P259457

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259457
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25712)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-29-S-UNV-L82765-W2A1-U-4000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2902.0 lumens
Efficiency: N/A
Efficacy: 137.5 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

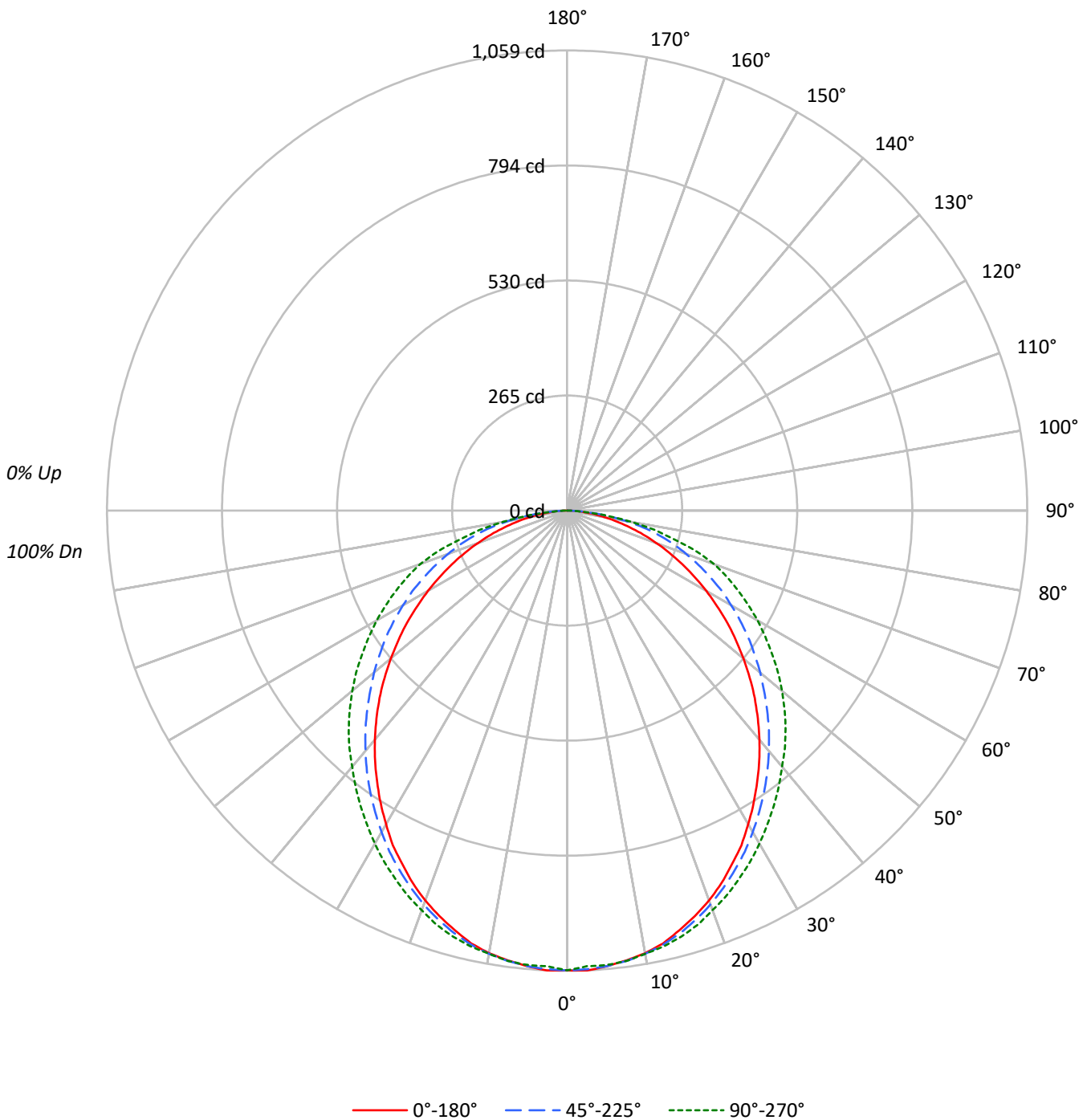
Input Watts (W): 21.111
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83
2	99	90	83	77	96	88	82	77	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	62	69	64	60	58
4	82	70	61	54	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43
6	70	56	47	41	68	56	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	26	52	39	32	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2847	2847	2847
5°	2843	2843	2835
10°	2826	2830	2830
15°	2784	2804	2827
20°	2734	2762	2802
25°	2665	2711	2777
30°	2590	2655	2750
35°	2505	2596	2725
40°	2419	2536	2703
45°	2323	2477	2705
50°	2218	2428	2702
55°	2112	2387	2701
60°	1988	2348	2723
65°	1864	2316	2760
70°	1721	2292	2829
75°	1550	2275	2623
80°	1361	2117	2290
85°	1118	1593	1420



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.9	3.4
10°-20°	283.8	9.8
20°-30°	421.5	14.5
30°-40°	496.2	17.1
40°-50°	505.8	17.4
50°-60°	456.2	15.7
60°-70°	359.4	12.4
70°-80°	221.7	7.6
80°-90°	57.5	2.0
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°	805.2	27.7
0°-40°	1301.4	44.8
0°-60°	2263.5	78.0
0°-90°	2902.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2902.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1058	1058	1058	1058	1058	
5°	1052	1054	1052	1051	1050	100
15°	999	1004	1006	1012	1015	282
25°	898	903	913	928	935	414
35°	762	771	790	815	829	477
45°	610	620	651	690	711	471
55°	450	466	509	555	576	402
65°	293	314	364	410	434	290
75°	149	174	219	244	252	159
85°	36	46	52	49	46	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1058.0	1058.0	1058.0	1058.0	1058.0
2.5°	1059.3	1059.3	1056.6	1053.8	1049.6
5°	1052.4	1053.8	1052.4	1051.0	1049.6
7.5°	1044.0	1045.4	1045.4	1045.4	1045.4
10°	1034.3	1035.6	1035.6	1035.6	1035.6
12.5°	1020.3	1021.7	1023.1	1024.5	1027.3
15°	999.4	1003.6	1006.4	1012.0	1014.7
17.5°	978.5	982.7	986.9	993.8	999.4
20°	954.8	957.6	964.6	972.9	978.5
22.5°	928.3	932.5	939.5	950.6	959.0
25°	897.7	903.2	913.0	928.3	935.3
27.5°	868.4	872.6	885.1	901.8	911.6
30°	833.5	839.1	854.4	875.4	885.1
32.5°	798.7	805.7	822.4	846.1	857.2
35°	762.4	770.8	790.3	815.4	829.4
37.5°	726.2	734.6	756.9	784.8	800.1
40°	688.6	696.9	722.0	752.7	769.4
42.5°	649.5	659.3	687.2	722.0	741.5
45°	610.5	620.3	650.9	690.0	710.9
47.5°	570.1	581.2	614.7	657.9	678.8
50°	529.7	542.2	579.9	624.5	645.4
52.5°	489.2	503.2	543.6	589.6	611.9
55°	450.2	465.6	508.8	554.8	575.7
57.5°	408.4	426.5	472.5	517.1	540.8
60°	369.4	388.9	436.3	480.9	506.0
62.5°	330.3	351.3	401.4	446.0	469.7
65°	292.7	313.6	363.8	409.8	433.5
67.5°	255.1	278.8	327.6	373.6	397.3
70°	218.8	243.9	291.3	335.9	359.6
72.5°	184.0	209.1	256.5	298.3	312.2
75°	149.1	174.2	218.8	243.9	252.3
77.5°	117.1	140.8	179.8	195.1	206.3
80°	87.8	108.7	136.6	146.4	147.8
82.5°	59.9	78.1	94.8	96.2	94.8
85°	36.2	46.0	51.6	48.8	46.0
87.5°	16.7	18.1	16.7	11.2	7.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)