

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: P259462

Luminaire Tested: **22CZ-LD5-29-S-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259462
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-6500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3039.0 lumens
Efficiency: N/A
Efficacy: 139.6 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

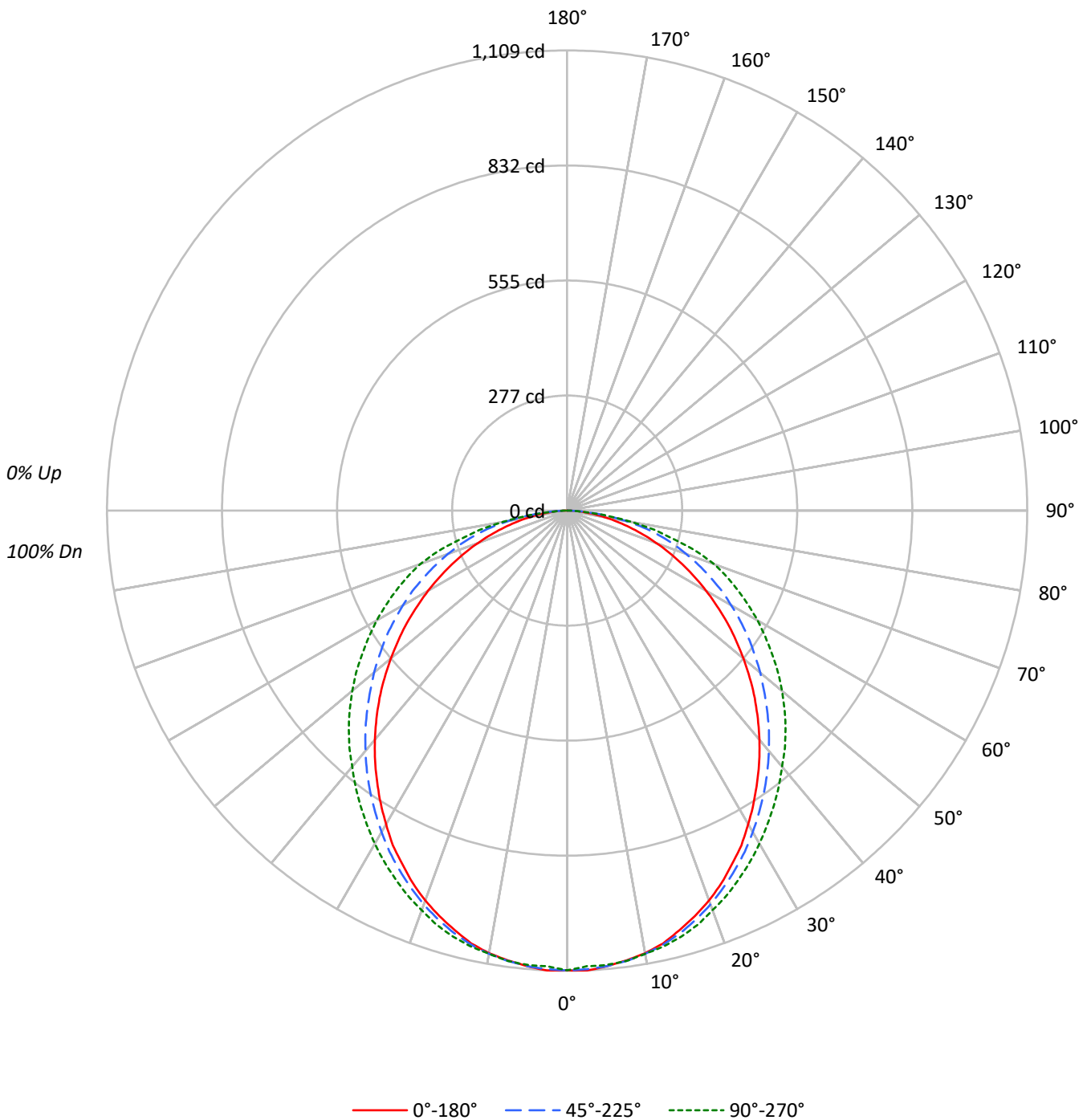
Input Watts (W): 21.762
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2981	2981	2981
5°	2977	2977	2969
10°	2960	2963	2963
15°	2916	2936	2960
20°	2863	2893	2934
25°	2791	2839	2908
30°	2712	2780	2880
35°	2623	2719	2853
40°	2533	2656	2830
45°	2433	2594	2833
50°	2322	2542	2829
55°	2212	2500	2828
60°	2082	2459	2852
65°	1952	2426	2891
70°	1803	2400	2963
75°	1624	2383	2747
80°	1426	2216	2397
85°	1173	1667	1488



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.6	3.4
10°-20°	297.2	9.8
20°-30°	441.4	14.5
30°-40°	519.6	17.1
40°-50°	529.7	17.4
50°-60°	477.7	15.7
60°-70°	376.3	12.4
70°-80°	232.1	7.6
80°-90°	60.3	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°	843.2	27.7
0°-40°	1362.8	44.8
0°-60°	2370.3	78.0
0°-90°	3039.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3039.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1108	1108	1108	1108	1108	
5°	1102	1104	1102	1101	1099	105
15°	1047	1051	1054	1060	1063	295
25°	940	946	956	972	979	433
35°	798	807	828	854	868	499
45°	639	650	682	722	744	493
55°	472	488	533	581	603	421
65°	306	328	381	429	454	304
75°	156	182	229	255	264	167
85°	38	48	54	51	48	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1107.9	1107.9	1107.9	1107.9	1107.9
2.5°	1109.4	1109.4	1106.4	1103.5	1099.1
5°	1102.1	1103.5	1102.1	1100.6	1099.1
7.5°	1093.3	1094.8	1094.8	1094.8	1094.8
10°	1083.1	1084.5	1084.5	1084.5	1084.5
12.5°	1068.5	1069.9	1071.4	1072.9	1075.8
15°	1046.6	1051.0	1053.9	1059.7	1062.6
17.5°	1024.7	1029.1	1033.5	1040.8	1046.6
20°	999.9	1002.8	1010.1	1018.9	1024.7
22.5°	972.1	976.5	983.8	995.5	1004.3
25°	940.0	945.9	956.1	972.1	979.4
27.5°	909.4	913.8	926.9	944.4	954.6
30°	872.9	878.7	894.8	916.7	926.9
32.5°	836.4	843.7	861.2	886.0	897.7
35°	798.4	807.2	827.6	853.9	868.5
37.5°	760.5	769.3	792.6	821.8	837.9
40°	721.1	729.8	756.1	788.2	805.7
42.5°	680.2	690.4	719.6	756.1	776.5
45°	639.3	649.6	681.7	722.5	744.4
47.5°	597.0	608.7	643.7	689.0	710.9
50°	554.7	567.8	607.2	653.9	675.8
52.5°	512.3	526.9	569.3	617.4	640.8
55°	471.5	487.5	532.8	581.0	602.8
57.5°	427.7	446.7	494.8	541.5	566.4
60°	386.8	407.3	456.9	503.6	529.9
62.5°	345.9	367.8	420.4	467.1	491.9
65°	306.5	328.4	381.0	429.1	454.0
67.5°	267.1	291.9	343.0	391.2	416.0
70°	229.2	255.4	305.1	351.8	376.6
72.5°	192.7	219.0	268.6	312.4	327.0
75°	156.2	182.5	229.2	255.4	264.2
77.5°	122.6	147.4	188.3	204.4	216.0
80°	92.0	113.9	143.0	153.3	154.7
82.5°	62.8	81.7	99.3	100.7	99.3
85°	38.0	48.2	54.0	51.1	48.2
87.5°	17.5	19.0	17.5	11.7	7.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)