

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: P259512

Luminaire Tested: **22CZ-LD5-29-S-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259512
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-L92765-W2A1-U-4500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2634.0 lumens
Efficiency: N/A
Efficacy: 124.2 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

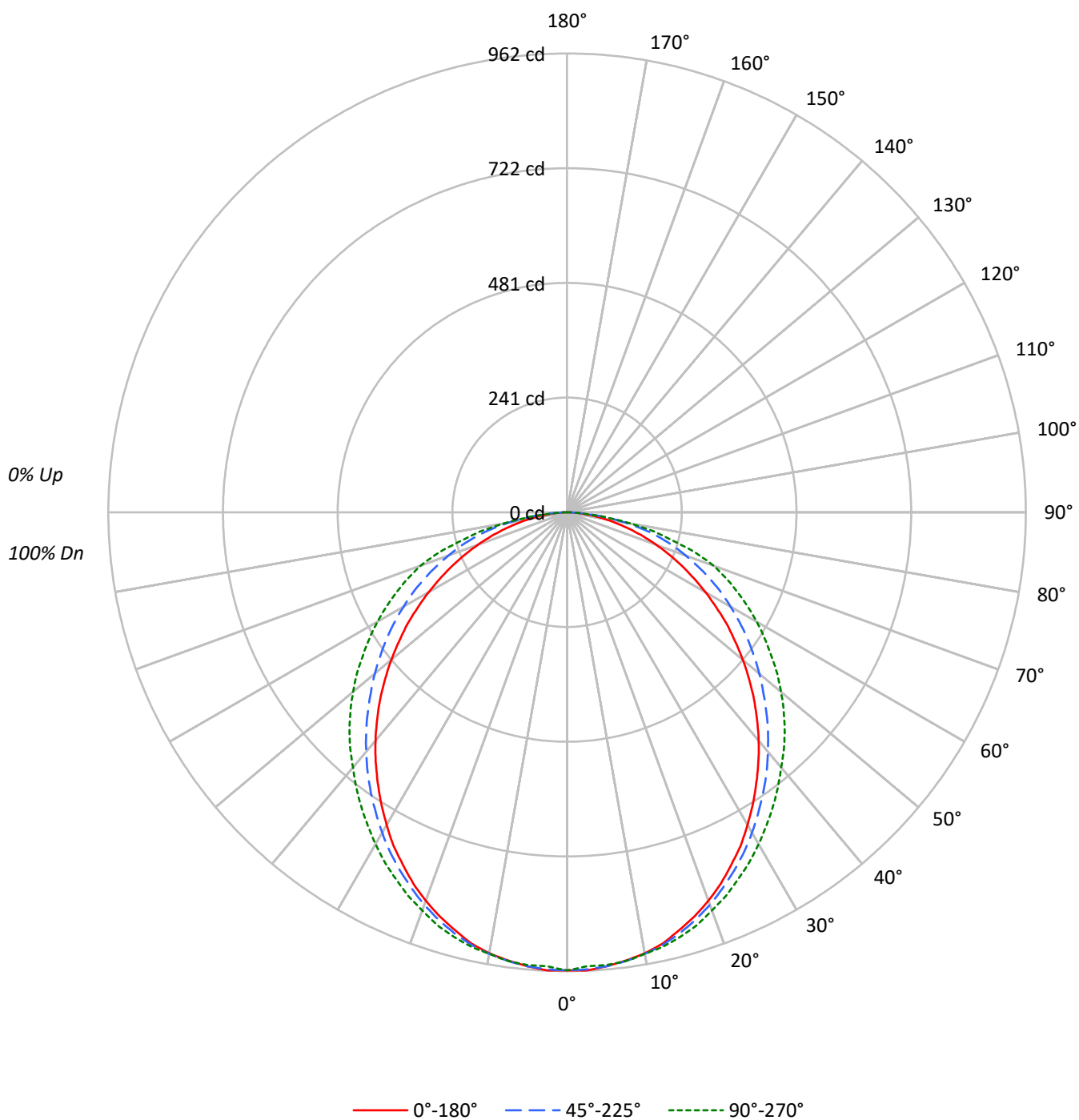
Input Watts (W): 21.204
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	104	99	95	106	101	97	94	97	94	91		93	91	88		90
2	99	90	83	77	96	88	82	77	85	79	75		81	77	73		78
3	90	79	71	64	87	78	70	64	75	68	63		72	66	62		69
4	82	70	61	54	80	69	61	54	66	59	53		64	58	53		62
5	76	63	54	47	74	62	53	47	59	52	46		57	51	46		56
6	70	56	47	41	68	56	47	41	54	46	40		52	45	40		50
7	65	51	42	36	63	50	42	36	49	41	36		47	41	36		46
8	60	47	38	32	59	46	38	32	45	37	32		43	37	32		42
9	56	43	35	29	55	42	34	29	41	34	29		40	34	29		39
10	53	40	32	26	52	39	32	26	38	31	26		37	31	26		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2584	2584	2584
5°	2580	2580	2573
10°	2565	2569	2569
15°	2527	2545	2566
20°	2482	2507	2543
25°	2419	2461	2521
30°	2351	2410	2496
35°	2273	2356	2473
40°	2196	2302	2453
45°	2109	2248	2455
50°	2013	2203	2452
55°	1917	2167	2451
60°	1805	2131	2471
65°	1692	2103	2506
70°	1563	2080	2568
75°	1408	2065	2381
80°	1235	1922	2078
85°	1016	1445	1288



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.7	3.4
10°-20°	257.6	9.8
20°-30°	382.6	14.5
30°-40°	450.3	17.1
40°-50°	459.1	17.4
50°-60°	414.1	15.7
60°-70°	326.2	12.4
70°-80°	201.2	7.6
80°-90°	52.2	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°	730.9	27.7
0°-40°	1181.2	44.8
0°-60°	2054.4	78.0
0°-90°	2634.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2634.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	960	960	960	960	960	
5°	955	956	955	954	953	91
15°	907	911	913	918	921	256
25°	815	820	829	843	849	375
35°	692	700	717	740	753	433
45°	554	563	591	626	645	427
55°	409	423	462	504	522	365
65°	266	285	330	372	394	263
75°	135	158	199	221	229	144
85°	33	42	47	44	42	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	960.2	960.2	960.2	960.2	960.2
2.5°	961.5	961.5	959.0	956.5	952.7
5°	955.2	956.5	955.2	953.9	952.7
7.5°	947.6	948.9	948.9	948.9	948.9
10°	938.7	940.0	940.0	940.0	940.0
12.5°	926.1	927.4	928.6	929.9	932.4
15°	907.1	910.9	913.4	918.5	921.0
17.5°	888.1	891.9	895.7	902.1	907.1
20°	866.6	869.2	875.5	883.1	888.1
22.5°	842.6	846.4	852.7	862.8	870.4
25°	814.8	819.8	828.7	842.6	848.9
27.5°	788.2	792.0	803.4	818.6	827.4
30°	756.6	761.6	775.5	794.5	803.4
32.5°	724.9	731.3	746.4	767.9	778.1
35°	692.0	699.6	717.3	740.1	752.8
37.5°	659.1	666.7	687.0	712.3	726.2
40°	625.0	632.6	655.3	683.2	698.4
42.5°	589.6	598.4	623.7	655.3	673.1
45°	554.1	563.0	590.8	626.2	645.2
47.5°	517.4	527.6	557.9	597.2	616.1
50°	480.8	492.1	526.3	566.8	585.8
52.5°	444.1	456.7	493.4	535.2	555.4
55°	408.6	422.6	461.8	503.5	522.5
57.5°	370.7	387.1	428.9	469.4	490.9
60°	335.3	353.0	396.0	436.5	459.2
62.5°	299.8	318.8	364.4	404.8	426.4
65°	265.7	284.7	330.2	372.0	393.5
67.5°	231.5	253.0	297.3	339.1	360.6
70°	198.6	221.4	264.4	304.9	326.4
72.5°	167.0	189.8	232.8	270.7	283.4
75°	135.4	158.1	198.6	221.4	229.0
77.5°	106.3	127.8	163.2	177.1	187.2
80°	79.7	98.7	124.0	132.8	134.1
82.5°	54.4	70.8	86.0	87.3	86.0
85°	32.9	41.7	46.8	44.3	41.7
87.5°	15.2	16.4	15.2	10.1	6.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)