

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: P259345

Luminaire Tested: **22CZ-LD5-29-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259345
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-L92765-W2A1-U-5000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2635.0 lumens
Efficiency: N/A
Efficacy: 123.7 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

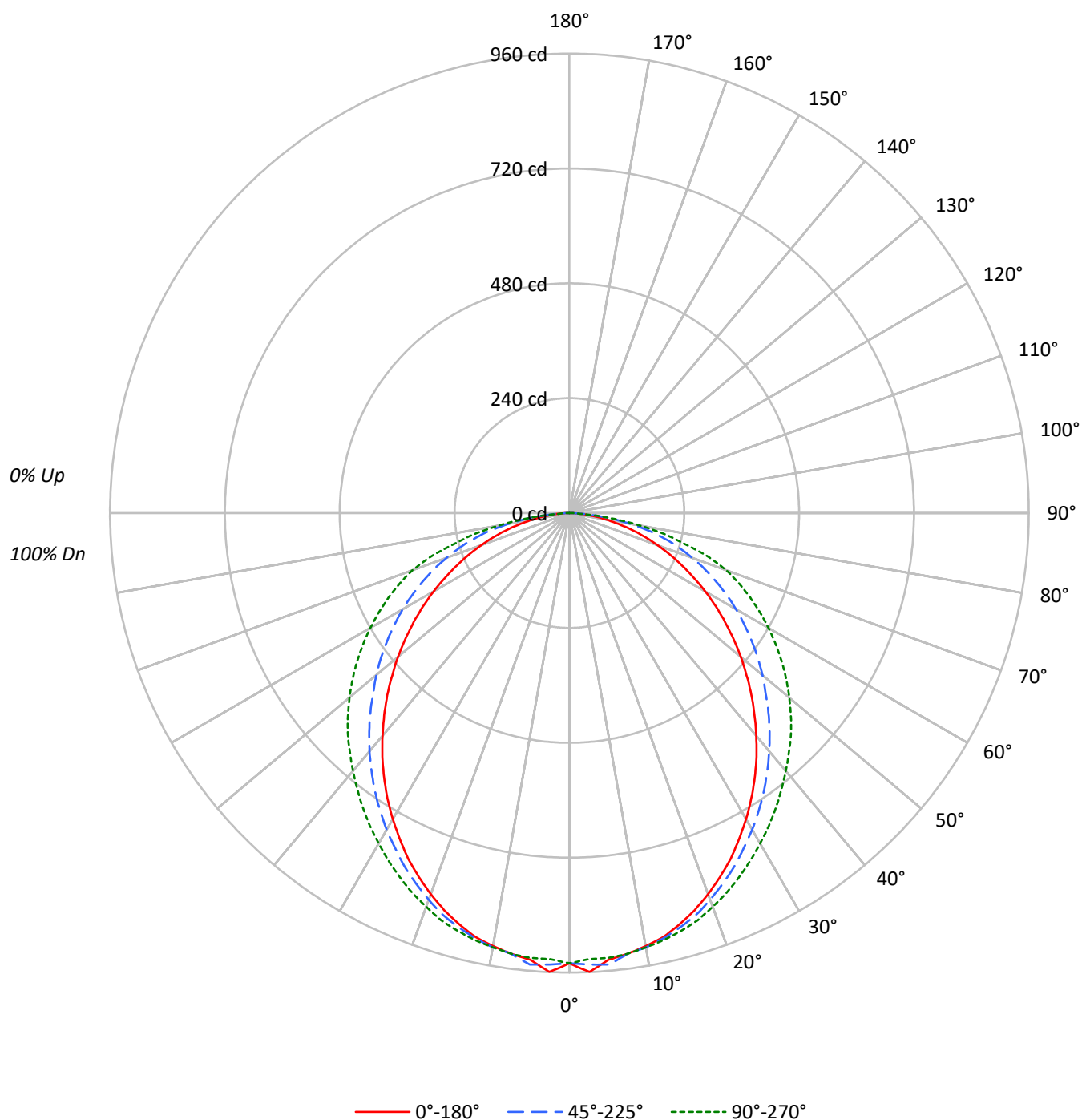
Input Watts (W): 21.297
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2531	2531	2531
5°	2530	2558	2520
10°	2510	2517	2517
15°	2478	2495	2517
20°	2426	2462	2506
25°	2366	2420	2492
30°	2293	2373	2476
35°	2218	2328	2471
40°	2134	2282	2471
45°	2048	2238	2492
50°	1958	2205	2511
55°	1863	2182	2543
60°	1765	2165	2586
65°	1656	2154	2651
70°	1542	2147	2742
75°	1398	2145	2598
80°	1212	1985	2303
85°	1028	1504	1463



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.2	3.4
10°-20°	252.7	9.6
20°-30°	375.9	14.3
30°-40°	444.6	16.9
40°-50°	456.9	17.3
50°-60°	417.5	15.8
60°-70°	334.0	12.7
70°-80°	209.6	8.0
80°-90°	54.6	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°	717.8	27.2
0°-40°	1162.3	44.1
0°-60°	2036.8	77.3
0°-90°	2635.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2635.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	940	940	940	940	940	
5°	937	937	947	940	933	89
15°	889	890	896	901	903	250
25°	797	802	815	829	839	366
35°	675	684	709	736	752	422
45°	538	552	588	632	655	415
55°	397	416	465	516	542	355
65°	260	283	338	390	416	258
75°	134	160	206	237	250	143
85°	33	42	49	47	47	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	940.5	940.5	940.5	940.5	940.5
2.5°	959.7	955.9	944.4	936.7	932.8
5°	936.7	936.7	946.9	940.5	932.8
7.5°	929.0	929.0	929.0	948.2	929.0
10°	918.7	920.0	921.3	929.0	921.3
12.5°	907.2	907.2	909.8	912.3	913.6
15°	889.3	890.5	895.7	900.8	903.4
17.5°	870.0	873.9	880.3	886.7	891.8
20°	847.0	852.1	859.8	870.0	875.2
22.5°	822.6	827.8	838.0	849.5	858.5
25°	797.0	802.1	814.9	829.0	839.3
27.5°	767.5	773.9	789.3	808.5	818.8
30°	738.1	745.8	763.7	785.5	797.0
32.5°	707.3	716.3	736.8	761.1	775.2
35°	675.3	684.2	708.6	735.5	752.2
37.5°	642.0	652.2	679.1	709.9	727.8
40°	607.4	618.9	649.7	683.0	703.5
42.5°	572.8	585.6	618.9	658.6	679.1
45°	538.2	552.3	588.1	631.7	654.8
47.5°	502.3	519.0	556.1	604.8	627.9
50°	467.7	484.4	526.6	576.6	599.7
52.5°	431.8	451.0	495.9	547.1	571.5
55°	397.2	416.4	465.1	516.4	542.0
57.5°	362.6	381.8	433.1	485.6	511.3
60°	328.0	348.5	402.3	453.6	480.5
62.5°	293.4	315.2	370.3	422.8	448.5
65°	260.1	283.2	338.3	389.5	416.4
67.5°	228.1	252.4	306.2	356.2	383.1
70°	196.0	220.4	272.9	321.6	348.5
72.5°	165.3	189.6	240.9	284.5	305.0
75°	134.5	160.2	206.3	237.1	249.9
77.5°	105.1	130.7	170.4	190.9	205.0
80°	78.2	99.9	128.1	143.5	148.6
82.5°	53.8	71.8	89.7	93.5	96.1
85°	33.3	42.3	48.7	47.4	47.4
87.5°	15.4	16.7	14.1	10.3	6.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)