

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: P260329

Luminaire Tested: **22CZ-LD5-44-SQP-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260329
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25713)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-44-SQP-UNV-L82765-W2A1-U-6500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2891.0 lumens
Efficiency: N/A
Efficacy: 79.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.41
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

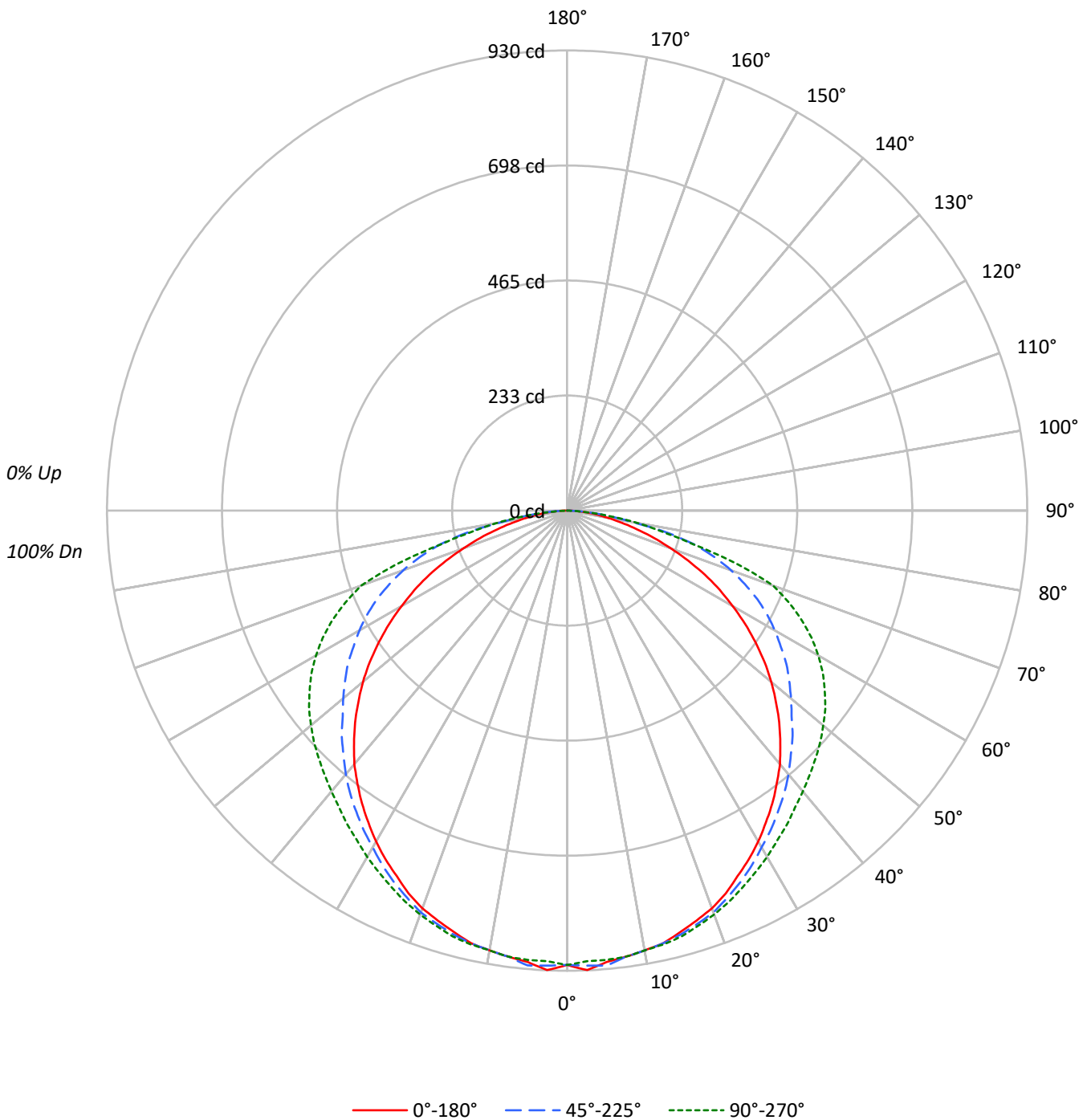
Input Watts (W): 36.177
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70	68
3	89	78	69	62	86	76	68	62	73	66	61	70	64	59	68	63	58	56
4	81	68	59	52	79	67	58	52	64	57	51	62	56	50	60	54	50	47
5	74	61	52	45	72	60	51	44	58	50	44	56	49	43	54	48	43	41
6	68	55	45	39	66	54	45	39	52	44	38	50	43	38	48	42	37	35
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	28
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2471	2471	2471
5°	2474	2492	2462
10°	2466	2466	2466
15°	2458	2471	2483
20°	2450	2475	2488
25°	2420	2460	2493
30°	2400	2442	2511
35°	2375	2441	2545
40°	2350	2445	2603
45°	2307	2452	2700
50°	2256	2472	2829
55°	2180	2539	2981
60°	2079	2610	3154
65°	1959	2702	3331
70°	1749	2773	3480
75°	1517	2778	2754
80°	1288	2053	2227
85°	1108	1386	1247



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.2	3.0
10°-20°	250.4	8.7
20°-30°	381.6	13.2
30°-40°	466.9	16.1
40°-50°	502.3	17.4
50°-60°	486.6	16.8
60°-70°	412.2	14.3
70°-80°	249.2	8.6
80°-90°	54.8	1.9
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°	719.1	24.9
0°-40°	1186.0	41.0
0°-60°	2174.9	75.2
0°-90°	2891.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2891.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	918	918	918	918	918	
5°	916	916	923	918	912	87
15°	882	885	887	889	891	249
25°	815	820	828	835	840	376
35°	723	727	743	763	775	452
45°	606	617	644	685	710	467
55°	465	485	541	604	635	415
65°	308	341	424	492	523	303
75°	146	198	267	272	265	157
85°	36	43	45	43	40	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	918.3	918.3	918.3	918.3	918.3
2.5°	929.5	927.2	920.5	916.0	911.5
5°	916.0	916.0	922.7	918.3	911.5
7.5°	909.3	909.3	909.3	920.5	909.3
10°	902.5	904.8	902.5	911.5	902.5
12.5°	895.8	895.8	895.8	898.1	898.1
15°	882.3	884.6	886.8	889.1	891.3
17.5°	868.9	871.1	875.6	877.8	880.1
20°	855.4	857.6	864.4	864.4	868.9
22.5°	837.4	837.4	846.4	848.7	855.4
25°	815.0	819.5	828.5	835.2	839.7
27.5°	794.8	799.3	808.2	817.2	824.0
30°	772.3	776.8	785.8	799.3	808.2
32.5°	747.6	752.1	765.6	781.3	790.3
35°	722.9	727.4	743.1	763.3	774.6
37.5°	696.0	702.7	720.7	743.1	756.6
40°	669.0	675.8	696.0	720.7	740.9
42.5°	637.6	646.6	669.0	702.7	725.2
45°	606.2	617.4	644.4	684.8	709.5
47.5°	572.5	583.7	615.2	666.8	693.7
50°	538.8	552.3	590.5	646.6	675.8
52.5°	502.9	516.4	565.8	626.4	657.8
55°	464.7	484.9	541.1	603.9	635.4
57.5°	426.6	449.0	511.9	579.2	612.9
60°	386.2	413.1	484.9	552.3	586.0
62.5°	348.0	377.2	455.8	523.1	556.8
65°	307.6	341.3	424.3	491.7	523.1
67.5°	264.9	307.6	388.4	453.5	484.9
70°	222.3	271.7	352.5	413.1	442.3
72.5°	184.1	235.7	312.1	363.7	363.7
75°	145.9	197.6	267.2	271.7	264.9
77.5°	112.3	161.6	208.8	190.8	195.3
80°	83.1	123.5	132.5	139.2	143.7
82.5°	56.1	83.1	85.3	89.8	89.8
85°	35.9	42.7	44.9	42.7	40.4
87.5°	15.7	18.0	13.5	9.0	6.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)