

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: P260323

Luminaire Tested: **22CZ-LD5-44-SQP-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P260323  
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-3500K  
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER  
WITH SQP LENS  
Light Source: (168) 80 CRI LEDS TUNED AT 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2701.0 lumens  
Efficiency: N/A  
Efficacy: 77.7 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

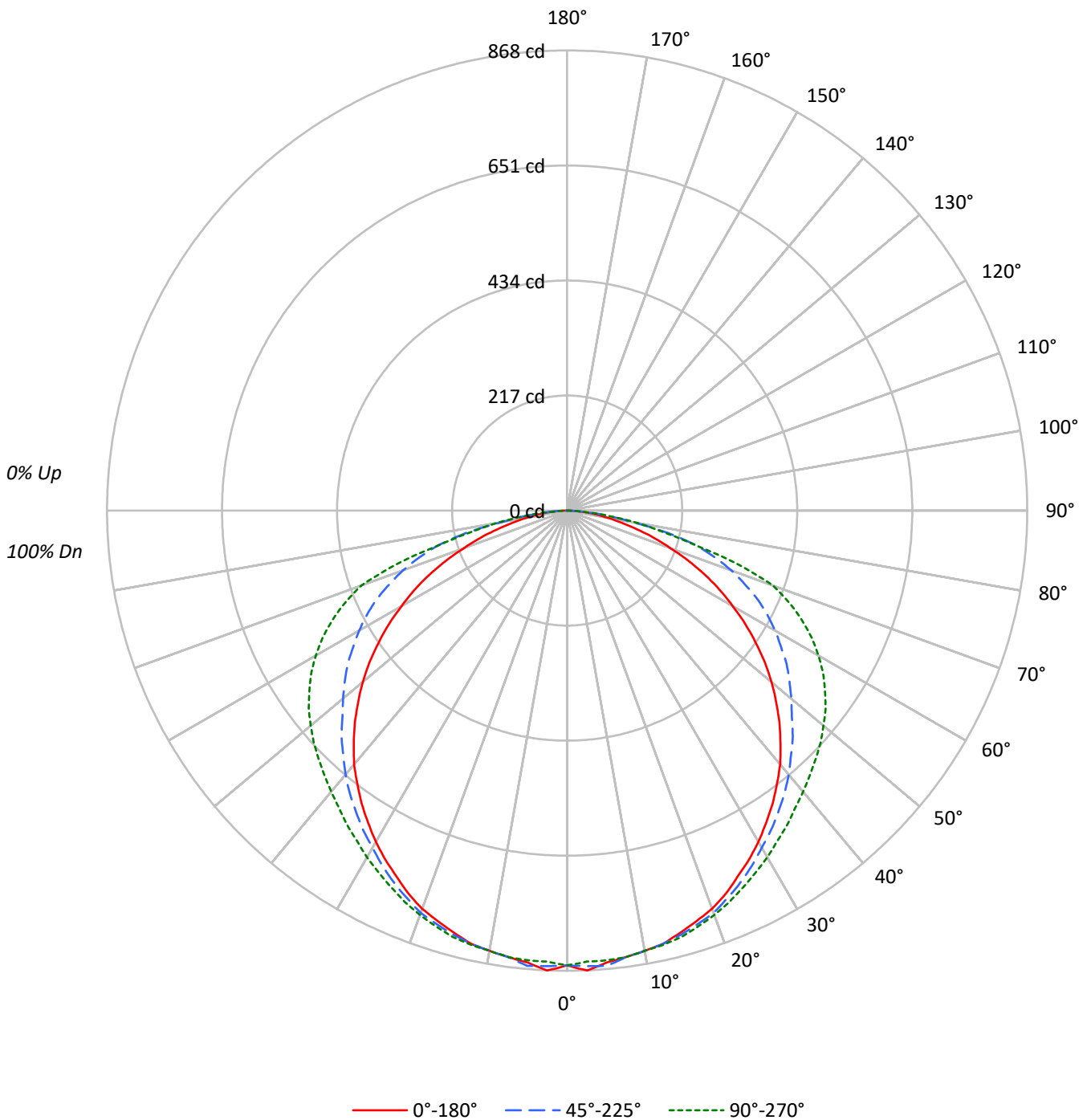
Input Watts (W): 34.782  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2309	2309	2309
5°	2312	2329	2300
10°	2304	2304	2304
15°	2296	2308	2320
20°	2289	2313	2325
25°	2261	2298	2329
30°	2242	2281	2346
35°	2219	2281	2377
40°	2196	2284	2432
45°	2155	2291	2522
50°	2107	2310	2643
55°	2037	2372	2785
60°	1942	2439	2947
65°	1830	2524	3112
70°	1634	2591	3251
75°	1417	2595	2573
80°	1203	1918	2080
85°	1037	1297	1167



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	81.5	3.0
10°-20°	233.9	8.7
20°-30°	356.5	13.2
30°-40°	436.2	16.1
40°-50°	469.3	17.4
50°-60°	454.6	16.8
60°-70°	385.1	14.3
70°-80°	232.8	8.6
80°-90°	51.2	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°	671.9	24.9
0°-40°	1108.0	41.0
0°-60°	2032.0	75.2
0°-90°	2701.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2701.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	858	858	858	858	858	
5°	856	856	862	858	852	81
15°	824	826	828	831	833	233
25°	761	766	774	780	784	351
35°	675	680	694	713	724	422
45°	566	577	602	640	663	436
55°	434	453	506	564	594	388
65°	287	319	396	459	489	283
75°	136	185	250	254	248	146
85°	34	40	42	40	38	38
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	857.9	857.9	857.9	857.9	857.9
2.5°	868.4	866.3	860.0	855.8	851.6
5°	855.8	855.8	862.1	857.9	851.6
7.5°	849.5	849.5	849.5	860.0	849.5
10°	843.2	845.3	843.2	851.6	843.2
12.5°	836.9	836.9	836.9	839.0	839.0
15°	824.3	826.4	828.5	830.6	832.7
17.5°	811.8	813.9	818.1	820.2	822.3
20°	799.2	801.3	807.6	807.6	811.8
22.5°	782.4	782.4	790.8	792.9	799.2
25°	761.4	765.6	774.0	780.3	784.5
27.5°	742.5	746.7	755.1	763.5	769.8
30°	721.6	725.8	734.2	746.7	755.1
32.5°	698.5	702.7	715.3	730.0	738.3
35°	675.4	679.6	694.3	713.2	723.7
37.5°	650.2	656.5	673.3	694.3	706.9
40°	625.1	631.4	650.2	673.3	692.2
42.5°	595.7	604.1	625.1	656.5	677.5
45°	566.3	576.8	602.0	639.8	662.8
47.5°	534.9	545.4	574.7	623.0	648.2
50°	503.4	516.0	551.7	604.1	631.4
52.5°	469.9	482.4	528.6	585.2	614.6
55°	434.2	453.1	505.5	564.2	593.6
57.5°	398.5	419.5	478.2	541.2	572.6
60°	360.8	386.0	453.1	516.0	547.5
62.5°	325.1	352.4	425.8	488.7	520.2
65°	287.4	318.8	396.4	459.4	488.7
67.5°	247.5	287.4	362.9	423.7	453.1
70°	207.7	253.8	329.3	386.0	413.2
72.5°	172.0	220.2	291.6	339.8	339.8
75°	136.3	184.6	249.6	253.8	247.5
77.5°	104.9	151.0	195.1	178.3	182.5
80°	77.6	115.4	123.8	130.0	134.2
82.5°	52.4	77.6	79.7	83.9	83.9
85°	33.6	39.9	42.0	39.9	37.8
87.5°	14.7	16.8	12.6	8.4	6.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)