

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: P260244

Luminaire Tested: **22CZ-LD5-44-SQP-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P260244  
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-L83050-W2A1-U-4500K  
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER  
WITH SQP LENS  
Light Source: (168) 80 CRI LEDS TUNED AT 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2932.0 lumens  
Efficiency: N/A  
Efficacy: 80.8 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

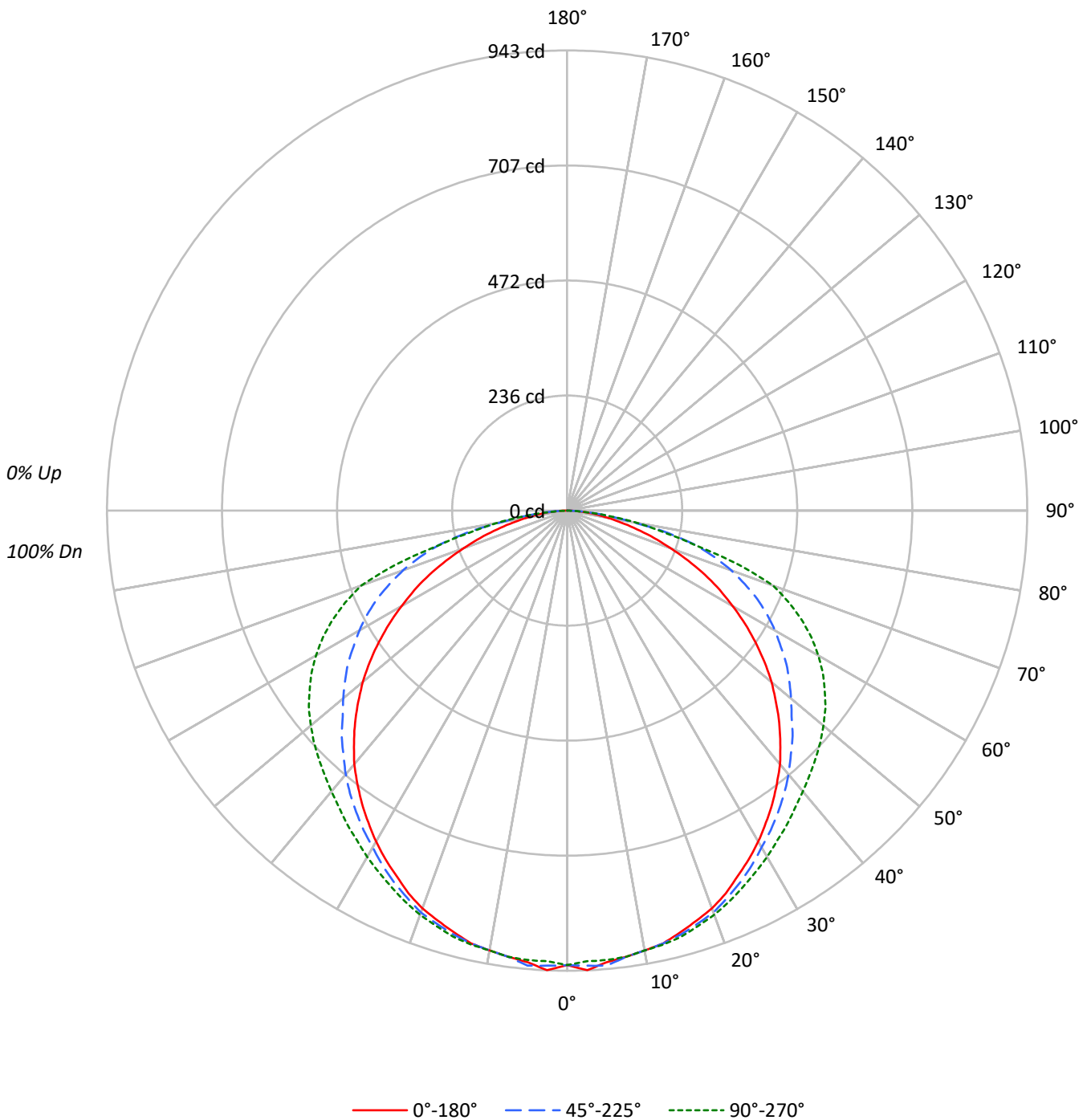
Input Watts (W): 36.27  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2506	2506	2506
5°	2509	2528	2497
10°	2501	2501	2501
15°	2493	2506	2518
20°	2484	2510	2523
25°	2454	2495	2529
30°	2434	2476	2547
35°	2409	2476	2581
40°	2383	2480	2640
45°	2340	2487	2738
50°	2288	2507	2869
55°	2211	2575	3023
60°	2108	2647	3198
65°	1986	2740	3378
70°	1773	2813	3530
75°	1539	2818	2794
80°	1305	2081	2258
85°	1124	1405	1266



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	88.4	3.0
10°-20°	253.9	8.7
20°-30°	387.0	13.2
30°-40°	473.5	16.1
40°-50°	509.5	17.4
50°-60°	493.5	16.8
60°-70°	418.0	14.3
70°-80°	252.7	8.6
80°-90°	55.5	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°	729.3	24.9
0°-40°	1202.8	41.0
0°-60°	2205.8	75.2
0°-90°	2932.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2932.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	931	931	931	931	931	
5°	929	929	936	931	924	88
15°	895	897	899	902	904	253
25°	826	831	840	847	852	382
35°	733	738	754	774	786	459
45°	615	626	654	694	720	474
55°	471	492	549	612	644	421
65°	312	346	430	499	530	307
75°	148	200	271	276	269	159
85°	36	43	46	43	41	41
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	931.3	931.3	931.3	931.3	931.3
2.5°	942.7	940.4	933.6	929.0	924.5
5°	929.0	929.0	935.8	931.3	924.5
7.5°	922.2	922.2	922.2	933.6	922.2
10°	915.3	917.6	915.3	924.5	915.3
12.5°	908.5	908.5	908.5	910.8	910.8
15°	894.9	897.1	899.4	901.7	904.0
17.5°	881.2	883.5	888.0	890.3	892.6
20°	867.5	869.8	876.6	876.6	881.2
22.5°	849.3	849.3	858.4	860.7	867.5
25°	826.5	831.1	840.2	847.0	851.6
27.5°	806.0	810.6	819.7	828.8	835.6
30°	783.3	787.8	796.9	810.6	819.7
32.5°	758.2	762.8	776.4	792.4	801.5
35°	733.2	737.7	753.7	774.2	785.6
37.5°	705.9	712.7	730.9	753.7	767.3
40°	678.5	685.4	705.9	730.9	751.4
42.5°	646.7	655.8	678.5	712.7	735.5
45°	614.8	626.2	653.5	694.5	719.5
47.5°	580.6	592.0	623.9	676.3	703.6
50°	546.5	560.1	598.8	655.8	685.4
52.5°	510.0	523.7	573.8	635.3	667.2
55°	471.3	491.8	548.8	612.5	644.4
57.5°	432.6	455.4	519.1	587.5	621.6
60°	391.6	419.0	491.8	560.1	594.3
62.5°	352.9	382.5	462.2	530.5	564.7
65°	311.9	346.1	430.3	498.7	530.5
67.5°	268.7	311.9	393.9	459.9	491.8
70°	225.4	275.5	357.5	419.0	448.6
72.5°	186.7	239.1	316.5	368.9	368.9
75°	148.0	200.4	271.0	275.5	268.7
77.5°	113.8	163.9	211.8	193.5	198.1
80°	84.2	125.2	134.3	141.2	145.7
82.5°	56.9	84.2	86.5	91.1	91.1
85°	36.4	43.3	45.5	43.3	41.0
87.5°	15.9	18.2	13.7	9.1	6.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)