

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: P260321

Luminaire Tested: **22CZ-LD5-44-SQP-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P260321  
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-2700K  
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER  
WITH SQP LENS  
Light Source: (168) 80 CRI LEDS TUNED AT 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2538.0 lumens  
Efficiency: N/A  
Efficacy: 73.4 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

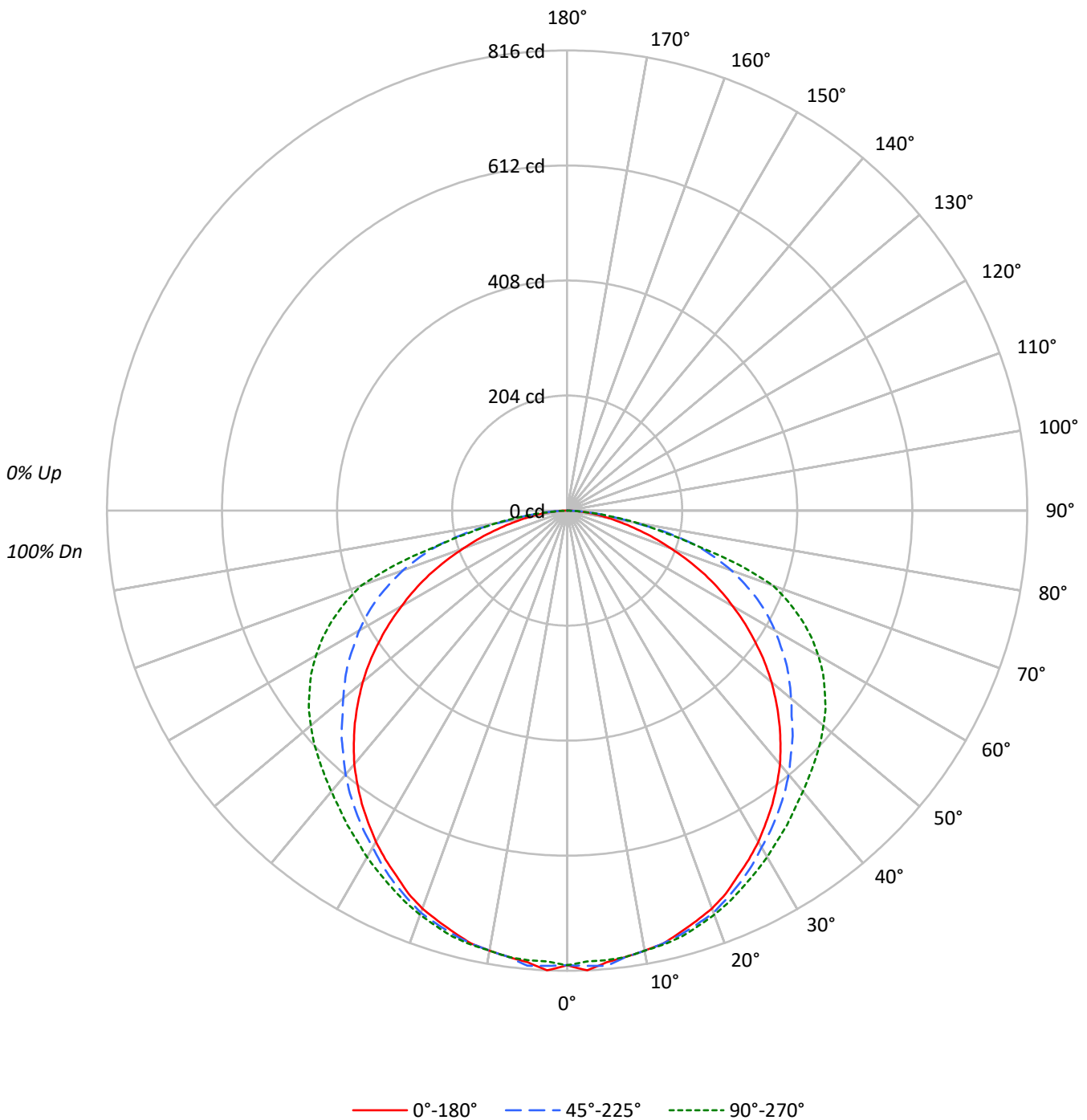
Input Watts (W): 34.596  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2169	2169	2169
5°	2172	2188	2162
10°	2165	2165	2165
15°	2158	2169	2180
20°	2150	2173	2184
25°	2124	2159	2189
30°	2107	2143	2205
35°	2085	2143	2234
40°	2063	2146	2285
45°	2025	2153	2370
50°	1980	2170	2484
55°	1914	2228	2617
60°	1824	2291	2768
65°	1719	2372	2924
70°	1535	2434	3055
75°	1332	2438	2418
80°	1130	1802	1954
85°	973	1216	1096



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	76.5	3.0
10°-20°	219.8	8.7
20°-30°	335.0	13.2
30°-40°	409.9	16.1
40°-50°	441.0	17.4
50°-60°	427.2	16.8
60°-70°	361.8	14.3
70°-80°	218.7	8.6
80°-90°	48.0	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°	631.3	24.9
0°-40°	1041.2	41.0
0°-60°	1909.3	75.2
0°-90°	2538.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2538.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	806	806	806	806	806	
5°	804	804	810	806	800	76
15°	775	777	778	780	782	219
25°	716	719	727	733	737	330
35°	635	639	652	670	680	397
45°	532	542	566	601	623	410
55°	408	426	475	530	558	364
65°	270	300	372	432	459	266
75°	128	173	234	238	233	138
85°	32	37	39	37	36	36
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	806.1	806.1	806.1	806.1	806.1
2.5°	816.0	814.0	808.1	804.2	800.2
5°	804.2	804.2	810.1	806.1	800.2
7.5°	798.3	798.3	798.3	808.1	798.3
10°	792.3	794.3	792.3	800.2	792.3
12.5°	786.4	786.4	786.4	788.4	788.4
15°	774.6	776.6	778.5	780.5	782.5
17.5°	762.8	764.7	768.7	770.7	772.6
20°	750.9	752.9	758.8	758.8	762.8
22.5°	735.2	735.2	743.1	745.0	750.9
25°	715.5	719.4	727.3	733.2	737.2
27.5°	697.7	701.7	709.6	717.4	723.4
30°	678.0	682.0	689.8	701.7	709.6
32.5°	656.3	660.3	672.1	685.9	693.8
35°	634.7	638.6	652.4	670.1	680.0
37.5°	611.0	616.9	632.7	652.4	664.2
40°	587.4	593.3	611.0	632.7	650.4
42.5°	559.8	567.6	587.4	616.9	636.6
45°	532.2	542.0	565.7	601.2	622.8
47.5°	502.6	512.5	540.1	585.4	609.0
50°	473.0	484.9	518.4	567.6	593.3
52.5°	441.5	453.3	496.7	549.9	577.5
55°	408.0	425.7	475.0	530.2	557.8
57.5°	374.5	394.2	449.4	508.5	538.1
60°	339.0	362.7	425.7	484.9	514.4
62.5°	305.5	331.1	400.1	459.2	488.8
65°	270.0	299.6	372.5	431.6	459.2
67.5°	232.6	270.0	341.0	398.1	425.7
70°	195.1	238.5	309.4	362.7	388.3
72.5°	161.6	207.0	274.0	319.3	319.3
75°	128.1	173.4	234.5	238.5	232.6
77.5°	98.5	141.9	183.3	167.5	171.5
80°	72.9	108.4	116.3	122.2	126.1
82.5°	49.3	72.9	74.9	78.8	78.8
85°	31.5	37.4	39.4	37.4	35.5
87.5°	13.8	15.8	11.8	7.9	5.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)