

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: P260315

Luminaire Tested: **22CZ-LD5-39-SQP-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P260315  
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-LD5-39-SQP-UNV-L82765-W2A1-U-4000K  
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER WITH SQP LENS  
Light Source: (168) 80 CRI LEDS TUNED AT 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2461.0 lumens  
Efficiency: N/A  
Efficacy: 80.7 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

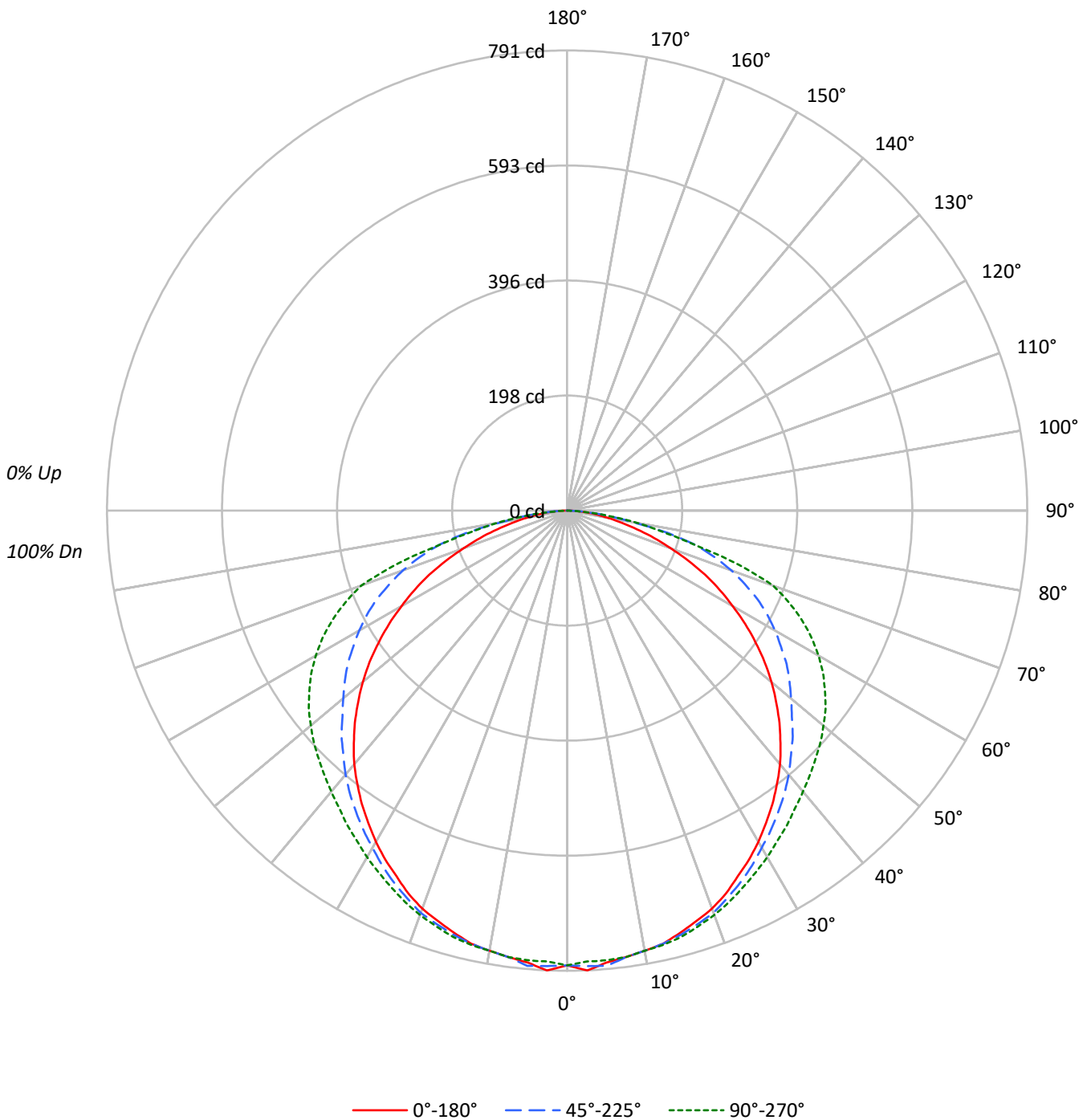
Input Watts (W): 30.504  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2104	2104	2104
5°	2106	2122	2096
10°	2099	2099	2099
15°	2092	2103	2114
20°	2085	2107	2118
25°	2060	2094	2122
30°	2043	2078	2138
35°	2022	2078	2166
40°	2001	2081	2216
45°	1964	2087	2298
50°	1920	2104	2408
55°	1856	2161	2538
60°	1769	2222	2685
65°	1667	2300	2835
70°	1489	2361	2962
75°	1291	2364	2345
80°	1096	1748	1895
85°	945	1179	1062



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	74.2	3.0
10°-20°	213.1	8.7
20°-30°	324.8	13.2
30°-40°	397.4	16.1
40°-50°	427.6	17.4
50°-60°	414.2	16.8
60°-70°	350.9	14.3
70°-80°	212.1	8.6
80°-90°	46.6	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°	612.2	24.9
0°-40°	1009.6	41.0
0°-60°	1851.4	75.2
0°-90°	2461.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2461.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	782	782	782	782	782	
5°	780	780	786	782	776	74
15°	751	753	755	757	759	212
25°	694	698	705	711	715	320
35°	615	619	633	650	659	385
45°	516	526	548	583	604	398
55°	396	413	461	514	541	353
65°	262	290	361	419	445	258
75°	124	168	227	231	226	133
85°	31	36	38	36	34	35
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	781.7	781.7	781.7	781.7	781.7
2.5°	791.2	789.3	783.6	779.8	775.9
5°	779.8	779.8	785.5	781.7	775.9
7.5°	774.0	774.0	774.0	783.6	774.0
10°	768.3	770.2	768.3	775.9	768.3
12.5°	762.6	762.6	762.6	764.5	764.5
15°	751.1	753.0	754.9	756.8	758.7
17.5°	739.6	741.5	745.4	747.3	749.2
20°	728.2	730.1	735.8	735.8	739.6
22.5°	712.9	712.9	720.5	722.4	728.2
25°	693.8	697.6	705.2	711.0	714.8
27.5°	676.6	680.4	688.0	695.7	701.4
30°	657.5	661.3	668.9	680.4	688.0
32.5°	636.4	640.3	651.7	665.1	672.7
35°	615.4	619.2	632.6	649.8	659.4
37.5°	592.5	598.2	613.5	632.6	644.1
40°	569.5	575.3	592.5	613.5	630.7
42.5°	542.8	550.4	569.5	598.2	617.3
45°	516.0	525.6	548.5	582.9	603.9
47.5°	487.4	496.9	523.7	567.6	590.6
50°	458.7	470.2	502.6	550.4	575.3
52.5°	428.1	439.6	481.6	533.2	560.0
55°	395.6	412.8	460.6	514.1	540.9
57.5°	363.1	382.2	435.8	493.1	521.8
60°	328.7	351.7	412.8	470.2	498.8
62.5°	296.2	321.1	388.0	445.3	474.0
65°	261.8	290.5	361.2	418.6	445.3
67.5°	225.5	261.8	330.6	386.1	412.8
70°	189.2	231.3	300.1	351.7	376.5
72.5°	156.7	200.7	265.7	309.6	309.6
75°	124.2	168.2	227.4	231.3	225.5
77.5°	95.6	137.6	177.7	162.5	166.3
80°	70.7	105.1	112.8	118.5	122.3
82.5°	47.8	70.7	72.6	76.4	76.4
85°	30.6	36.3	38.2	36.3	34.4
87.5°	13.4	15.3	11.5	7.6	5.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)