

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: P259274

Luminaire Tested: **22CZ-LD5-20-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P259274  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25706)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22CZ-LD5-20-UNV-L82765-W2A1-U-5500K  
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER WITH RIBBED LENS  
Light Source: (168) 80 CRI LEDS TUNED AT 5500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2246.0 lumens  
Efficiency: N/A  
Efficacy: 140.4 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.26 / 1.34  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

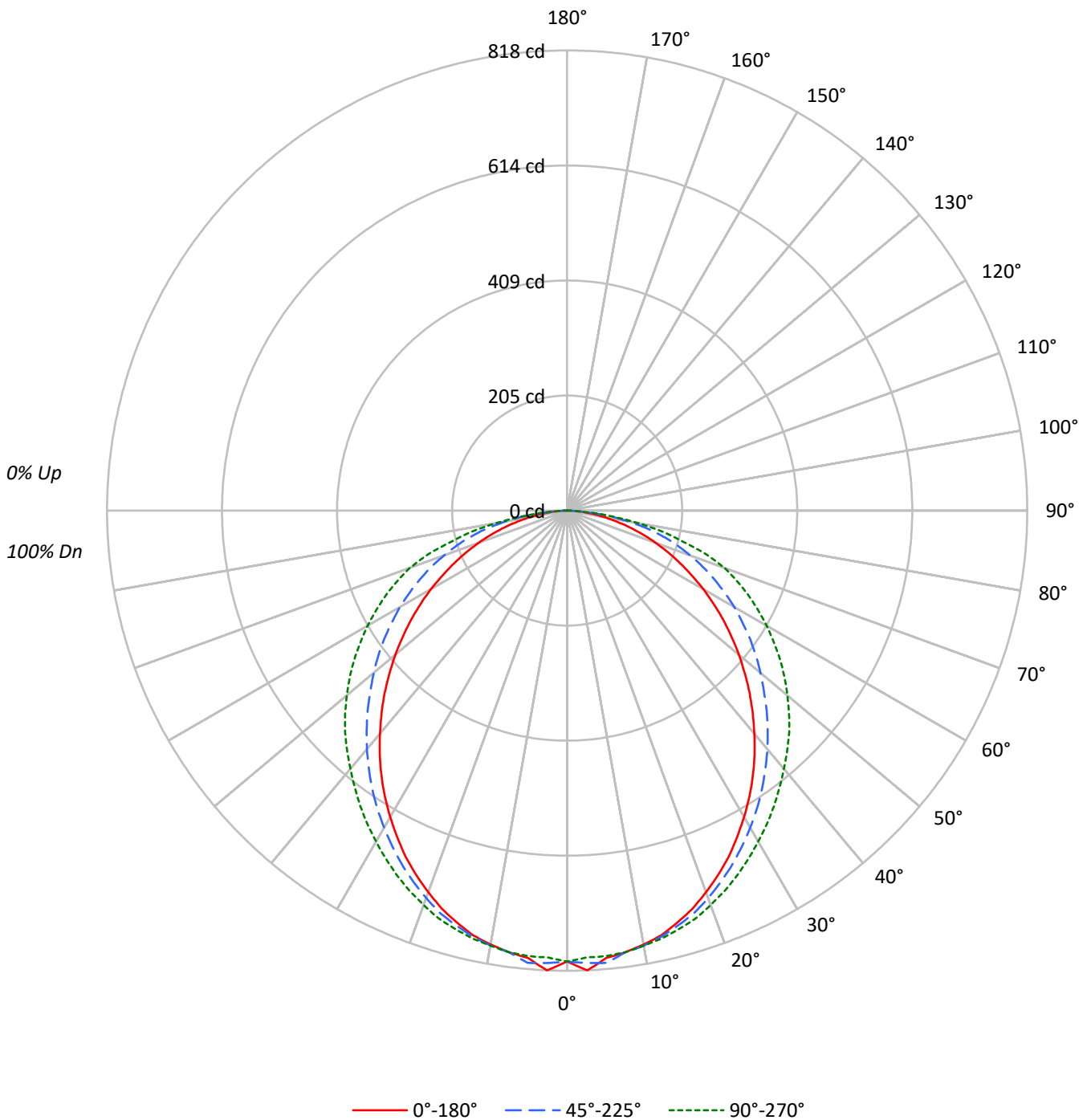
Input Watts (W): 15.996  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	90	79	70	64	87	77	69	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2157	2157	2157
5°	2157	2180	2148
10°	2140	2146	2146
15°	2112	2127	2145
20°	2067	2099	2136
25°	2017	2062	2124
30°	1955	2023	2111
35°	1891	1984	2106
40°	1819	1945	2106
45°	1746	1908	2124
50°	1669	1879	2140
55°	1589	1860	2168
60°	1505	1846	2204
65°	1412	1836	2260
70°	1315	1830	2338
75°	1193	1828	2215
80°	1032	1692	1963
85°	877	1281	1247



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	76.0	3.4
10°-20°	215.4	9.6
20°-30°	320.4	14.3
30°-40°	378.9	16.9
40°-50°	389.5	17.3
50°-60°	355.9	15.8
60°-70°	284.7	12.7
70°-80°	178.7	8.0
80°-90°	46.5	2.1
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°	611.8	27.2
0°-40°	990.7	44.1
0°-60°	1736.1	77.3
0°-90°	2246.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2246.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	802	802	802	802	802	
5°	798	798	807	802	795	76
15°	758	759	763	768	770	214
25°	679	684	695	707	715	312
35°	576	583	604	627	641	360
45°	459	471	501	538	558	354
55°	339	355	396	440	462	303
65°	222	241	288	332	355	220
75°	115	136	176	202	213	122
85°	28	36	42	40	40	33
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	801.7	801.7	801.7	801.7	801.7
2.5°	818.1	814.8	804.9	798.4	795.1
5°	798.4	798.4	807.1	801.7	795.1
7.5°	791.8	791.8	791.8	808.2	791.8
10°	783.1	784.2	785.3	791.8	785.3
12.5°	773.3	773.3	775.5	777.6	778.7
15°	758.0	759.1	763.4	767.8	770.0
17.5°	741.6	744.9	750.3	755.8	760.2
20°	721.9	726.3	732.9	741.6	746.0
22.5°	701.2	705.6	714.3	724.1	731.8
25°	679.3	683.7	694.6	706.7	715.4
27.5°	654.2	659.7	672.8	689.2	697.9
30°	629.1	635.7	650.9	669.5	679.3
32.5°	602.9	610.5	628.0	648.8	660.8
35°	575.6	583.2	604.0	626.9	641.1
37.5°	547.2	555.9	578.9	605.1	620.4
40°	517.7	527.5	553.7	582.1	599.6
42.5°	488.2	499.1	527.5	561.4	578.9
45°	458.7	470.7	501.3	538.5	558.1
47.5°	428.1	442.3	474.0	515.5	535.2
50°	398.7	412.9	448.9	491.5	511.1
52.5°	368.1	384.5	422.7	466.4	487.1
55°	338.6	355.0	396.5	440.2	462.0
57.5°	309.1	325.5	369.2	413.9	435.8
60°	279.6	297.1	343.0	386.6	409.6
62.5°	250.1	268.7	315.6	360.4	382.3
65°	221.7	241.4	288.3	332.0	355.0
67.5°	194.4	215.2	261.0	303.6	326.6
70°	167.1	187.9	232.6	274.1	297.1
72.5°	140.9	161.6	205.3	242.5	259.9
75°	114.7	136.5	175.8	202.1	213.0
77.5°	89.6	111.4	145.3	162.7	174.8
80°	66.6	85.2	109.2	122.3	126.7
82.5°	45.9	61.2	76.5	79.7	81.9
85°	28.4	36.0	41.5	40.4	40.4
87.5°	13.1	14.2	12.0	8.7	5.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)