

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: P259273

Luminaire Tested: **22CZ-LD5-20-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P259273  
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-5000K  
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER WITH RIBBED LENS  
Light Source: (168) 80 CRI LEDS TUNED AT 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2224.0 lumens  
Efficiency: N/A  
Efficacy: 139.8 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

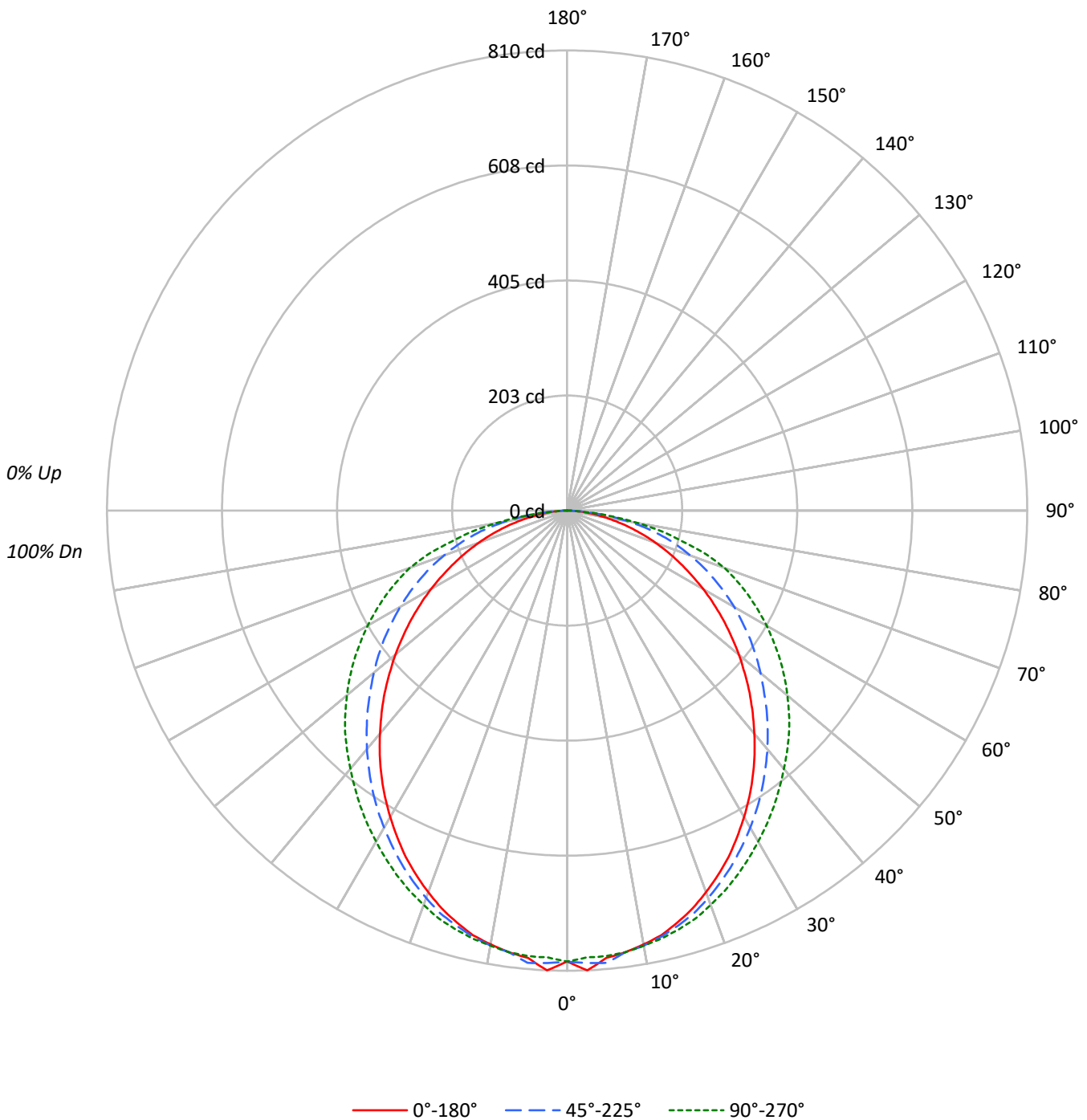
Input Watts (W): 15.903  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2136	2136	2136
5°	2136	2159	2127
10°	2119	2125	2125
15°	2091	2106	2124
20°	2047	2078	2115
25°	1997	2042	2103
30°	1936	2003	2090
35°	1872	1965	2085
40°	1801	1926	2086
45°	1729	1889	2103
50°	1652	1861	2119
55°	1573	1842	2146
60°	1490	1828	2183
65°	1398	1818	2238
70°	1302	1813	2315
75°	1181	1810	2193
80°	1023	1675	1945
85°	868	1269	1235



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	75.3	3.4
10°-20°	213.3	9.6
20°-30°	317.2	14.3
30°-40°	375.2	16.9
40°-50°	385.7	17.3
50°-60°	352.4	15.8
60°-70°	281.9	12.7
70°-80°	176.9	8.0
80°-90°	46.1	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°	605.8	27.2
0°-40°	981.0	44.1
0°-60°	1719.1	77.3
0°-90°	2224.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2224.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	794	794	794	794	794	
5°	791	791	799	794	787	75
15°	751	752	756	760	762	211
25°	673	677	688	700	708	309
35°	570	578	598	621	635	356
45°	454	466	496	533	553	350
55°	335	352	393	436	458	300
65°	220	239	286	329	352	218
75°	114	135	174	200	211	121
85°	28	36	41	40	40	33
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	793.8	793.8	793.8	793.8	793.8
2.5°	810.0	806.8	797.1	790.6	787.3
5°	790.6	790.6	799.2	793.8	787.3
7.5°	784.1	784.1	784.1	800.3	784.1
10°	775.4	776.5	777.6	784.1	777.6
12.5°	765.7	765.7	767.9	770.0	771.1
15°	750.6	751.6	756.0	760.3	762.5
17.5°	734.3	737.6	743.0	748.4	752.7
20°	714.9	719.2	725.7	734.3	738.7
22.5°	694.3	698.6	707.3	717.0	724.6
25°	672.7	677.0	687.8	699.7	708.4
27.5°	647.8	653.2	666.2	682.4	691.1
30°	622.9	629.4	644.6	663.0	672.7
32.5°	597.0	604.6	621.9	642.4	654.3
35°	570.0	577.5	598.1	620.8	634.8
37.5°	541.8	550.5	573.2	599.2	614.3
40°	512.6	522.4	548.3	576.4	593.7
42.5°	483.4	494.2	522.4	555.9	573.2
45°	454.2	466.1	496.4	533.2	552.6
47.5°	423.9	438.0	469.4	510.5	529.9
50°	394.7	408.8	444.5	486.7	506.1
52.5°	364.5	380.7	418.5	461.8	482.3
55°	335.3	351.5	392.6	435.8	457.5
57.5°	306.1	322.3	365.5	409.9	431.5
60°	276.9	294.2	339.6	382.9	405.6
62.5°	247.7	266.0	312.6	356.9	378.5
65°	219.5	239.0	285.5	328.8	351.5
67.5°	192.5	213.1	258.5	300.7	323.4
70°	165.5	186.0	230.4	271.5	294.2
72.5°	139.5	160.1	203.3	240.1	257.4
75°	113.6	135.2	174.1	200.1	210.9
77.5°	88.7	110.3	143.8	161.1	173.0
80°	66.0	84.4	108.1	121.1	125.5
82.5°	45.4	60.6	75.7	78.9	81.1
85°	28.1	35.7	41.1	40.0	40.0
87.5°	13.0	14.1	11.9	8.7	5.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)