

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: P259275

Luminaire Tested: **22CZ-LD5-20-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P259275  
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-5700K  
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER WITH RIBBED LENS  
Light Source: (168) 80 CRI LEDS TUNED AT 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2252.0 lumens  
Efficiency: N/A  
Efficacy: 140.8 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

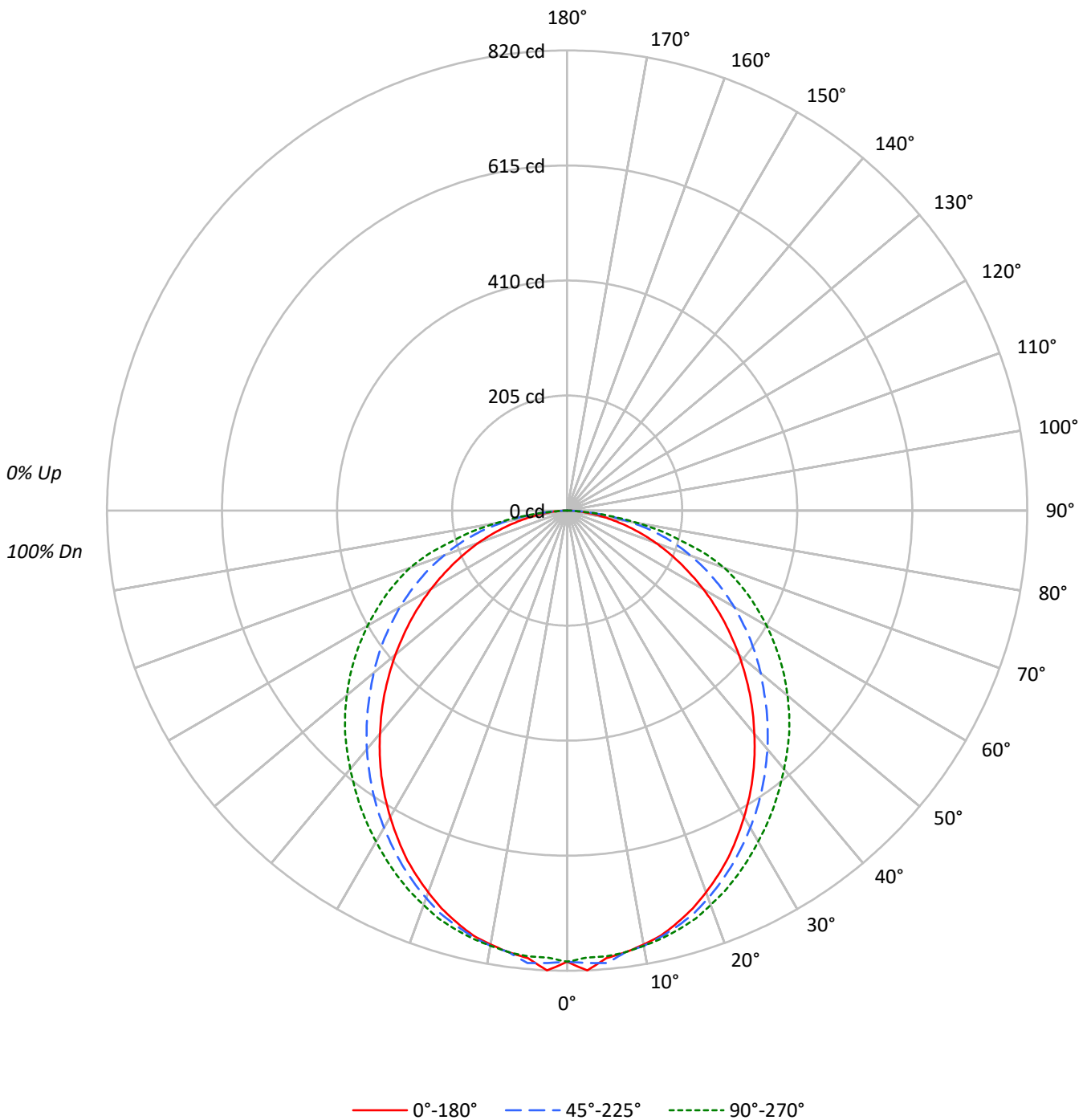
Input Watts (W): 15.996  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2163	2163	2163
5°	2162	2186	2153
10°	2146	2152	2152
15°	2117	2133	2151
20°	2073	2104	2142
25°	2023	2068	2130
30°	1960	2028	2117
35°	1896	1989	2112
40°	1824	1950	2112
45°	1750	1913	2130
50°	1673	1884	2146
55°	1593	1865	2173
60°	1509	1851	2210
65°	1415	1841	2266
70°	1319	1836	2344
75°	1196	1833	2220
80°	1035	1697	1968
85°	880	1284	1250



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	76.2	3.4
10°-20°	216.0	9.6
20°-30°	321.2	14.3
30°-40°	379.9	16.9
40°-50°	390.5	17.3
50°-60°	356.8	15.8
60°-70°	285.5	12.7
70°-80°	179.2	8.0
80°-90°	46.6	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°	613.4	27.2
0°-40°	993.4	44.1
0°-60°	1740.7	77.3
0°-90°	2252.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2252.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	804	804	804	804	804	
5°	800	800	809	804	797	76
15°	760	761	766	770	772	214
25°	681	686	696	708	717	313
35°	577	585	606	629	643	361
45°	460	472	503	540	560	355
55°	340	356	398	441	463	304
65°	222	242	289	333	356	221
75°	115	137	176	203	214	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°	803.8	803.8	803.8	803.8	803.8
2.5°	820.2	817.0	807.1	800.5	797.2
5°	800.5	800.5	809.3	803.8	797.2
7.5°	794.0	794.0	794.0	810.4	794.0
10°	785.2	786.3	787.4	794.0	787.4
12.5°	775.3	775.3	777.5	779.7	780.8
15°	760.0	761.1	765.5	769.9	772.1
17.5°	743.6	746.9	752.3	757.8	762.2
20°	723.9	728.3	734.8	743.6	748.0
22.5°	703.1	707.4	716.2	726.1	733.7
25°	681.2	685.5	696.5	708.5	717.3
27.5°	656.0	661.4	674.6	691.0	699.8
30°	630.8	637.4	652.7	671.3	681.2
32.5°	604.5	612.2	629.7	650.5	662.5
35°	577.1	584.8	605.6	628.6	642.8
37.5°	548.7	557.4	580.4	606.7	622.0
40°	519.1	528.9	555.2	583.7	601.2
42.5°	489.5	500.5	528.9	562.9	580.4
45°	459.9	472.0	502.7	539.9	559.6
47.5°	429.3	443.5	475.3	516.9	536.6
50°	399.7	414.0	450.1	492.8	512.5
52.5°	369.1	385.5	423.8	467.6	488.4
55°	339.5	355.9	397.5	441.3	463.2
57.5°	309.9	326.3	370.1	415.0	437.0
60°	280.3	297.9	343.9	387.7	410.7
62.5°	250.8	269.4	316.5	361.4	383.3
65°	222.3	242.0	289.1	332.9	355.9
67.5°	194.9	215.7	261.7	304.4	327.4
70°	167.6	188.4	233.3	274.9	297.9
72.5°	141.3	162.1	205.9	243.1	260.6
75°	115.0	136.9	176.3	202.6	213.5
77.5°	89.8	111.7	145.7	163.2	175.2
80°	66.8	85.4	109.5	122.7	127.0
82.5°	46.0	61.3	76.7	79.9	82.1
85°	28.5	36.1	41.6	40.5	40.5
87.5°	13.1	14.2	12.0	8.8	5.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)