

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: P259276

Luminaire Tested: **22CZ-LD5-20-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P259276  
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-6500K  
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER  
WITH RIBBED LENS  
Light Source: (168) 80 CRI LEDS TUNED AT 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2258.0 lumens  
Efficiency: N/A  
Efficacy: 139.5 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

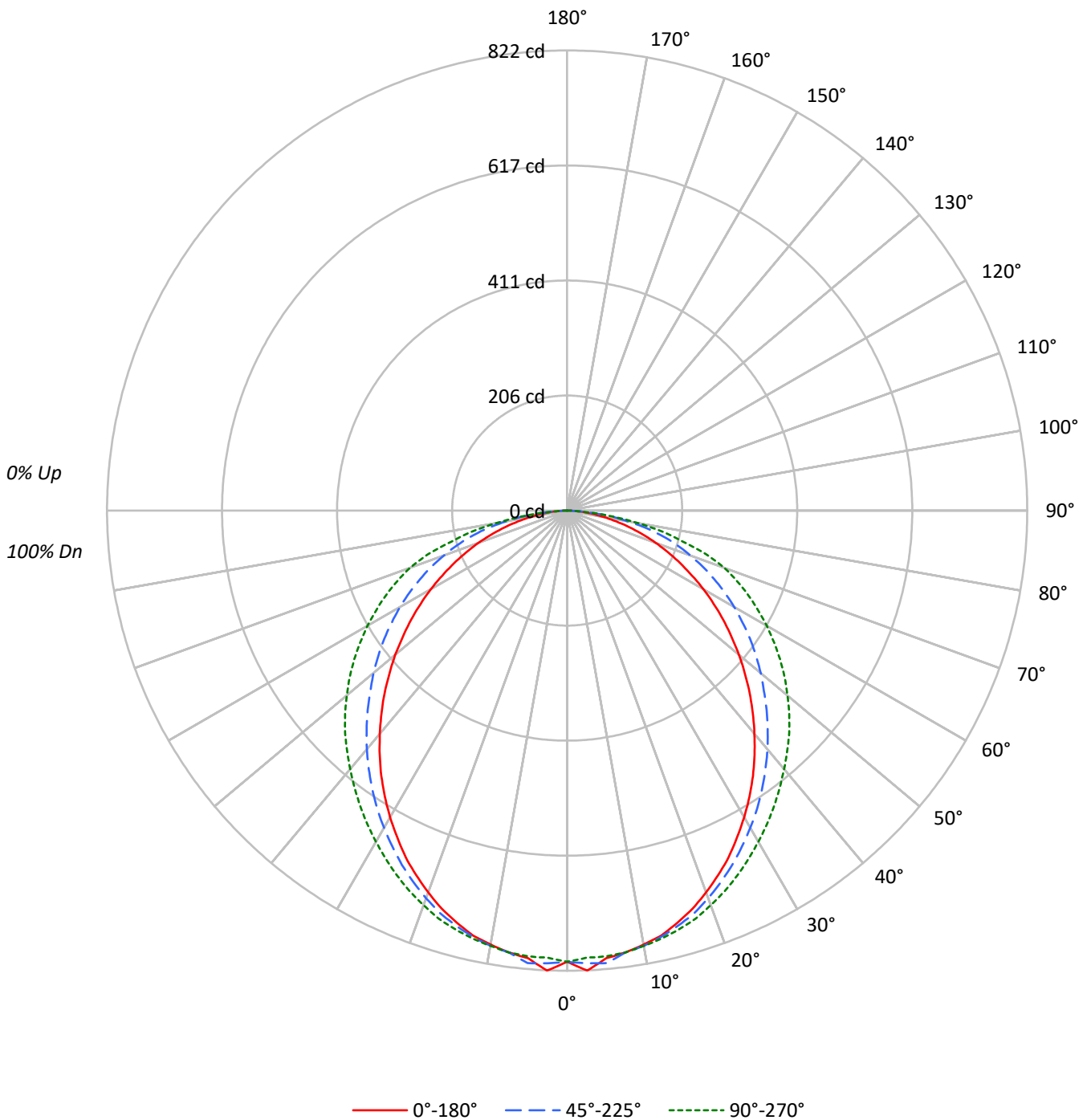
Input Watts (W): 16.182  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2169	2169	2169
5°	2168	2192	2159
10°	2151	2157	2157
15°	2123	2138	2157
20°	2078	2110	2148
25°	2028	2073	2135
30°	1965	2033	2122
35°	1901	1995	2117
40°	1828	1956	2118
45°	1755	1918	2135
50°	1678	1889	2151
55°	1597	1870	2179
60°	1513	1856	2216
65°	1419	1846	2273
70°	1322	1840	2350
75°	1199	1838	2226
80°	1038	1702	1974
85°	880	1288	1254



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	76.4	3.4
10°-20°	216.5	9.6
20°-30°	322.1	14.3
30°-40°	381.0	16.9
40°-50°	391.6	17.3
50°-60°	357.8	15.8
60°-70°	286.2	12.7
70°-80°	179.6	8.0
80°-90°	46.8	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°	615.1	27.2
0°-40°	996.0	44.1
0°-60°	1745.4	77.3
0°-90°	2258.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2258.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	806	806	806	806	806	
5°	803	803	811	806	799	76
15°	762	763	768	772	774	215
25°	683	687	698	710	719	314
35°	579	586	607	630	644	362
45°	461	473	504	541	561	356
55°	340	357	399	442	464	304
65°	223	243	290	334	357	221
75°	115	137	177	203	214	122
85°	28	36	42	41	41	33
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	806.0	806.0	806.0	806.0	806.0
2.5°	822.4	819.1	809.3	802.7	799.4
5°	802.7	802.7	811.4	806.0	799.4
7.5°	796.1	796.1	796.1	812.5	796.1
10°	787.3	788.4	789.5	796.1	789.5
12.5°	777.4	777.4	779.6	781.8	782.9
15°	762.0	763.1	767.5	771.9	774.1
17.5°	745.6	748.9	754.3	759.8	764.2
20°	725.8	730.2	736.8	745.6	750.0
22.5°	704.9	709.3	718.1	728.0	735.7
25°	683.0	687.4	698.3	710.4	719.2
27.5°	657.7	663.2	676.4	692.9	701.6
30°	632.5	639.1	654.4	673.1	683.0
32.5°	606.1	613.8	631.4	652.2	664.3
35°	578.7	586.3	607.2	630.3	644.5
37.5°	550.1	558.9	582.0	608.3	623.7
40°	520.5	530.3	556.7	585.3	602.8
42.5°	490.8	501.8	530.3	564.4	582.0
45°	461.2	473.3	504.0	541.3	561.1
47.5°	430.4	444.7	476.5	518.3	538.0
50°	400.8	415.1	451.3	494.1	513.9
52.5°	370.0	386.5	424.9	468.9	489.7
55°	340.4	356.9	398.6	442.5	464.5
57.5°	310.7	327.2	371.1	416.2	438.1
60°	281.1	298.7	344.8	388.7	411.8
62.5°	251.4	270.1	317.3	362.4	384.3
65°	222.9	242.7	289.9	333.8	356.9
67.5°	195.4	216.3	262.4	305.3	328.3
70°	168.0	188.9	233.9	275.6	298.7
72.5°	141.6	162.5	206.4	243.8	261.3
75°	115.3	137.3	176.8	203.1	214.1
77.5°	90.0	112.0	146.0	163.6	175.7
80°	67.0	85.6	109.8	123.0	127.4
82.5°	46.1	61.5	76.9	80.2	82.4
85°	28.5	36.2	41.7	40.6	40.6
87.5°	13.2	14.3	12.1	8.8	5.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)