

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: P259279

Luminaire Tested: **22CZ-LD5-24-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P259279  
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-LD5-24-UNV-L82765-W2A1-U-3500K  
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER WITH RIBBED LENS  
Light Source: (168) 80 CRI LEDS TUNED AT 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2380.0 lumens  
Efficiency: N/A  
Efficacy: 134.7 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

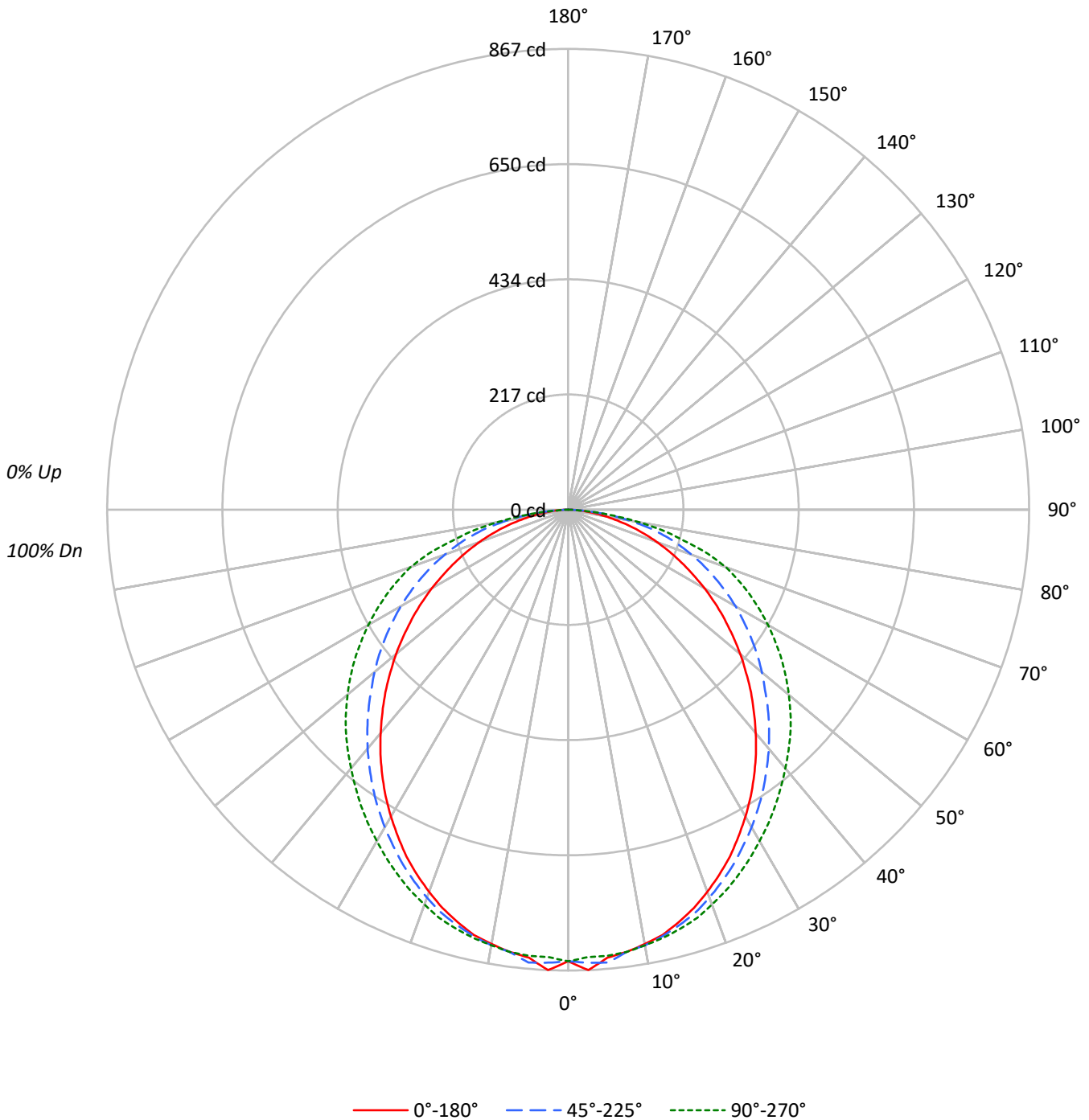
Input Watts (W): 17.67  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2286	2286	2286
5°	2285	2310	2276
10°	2267	2274	2274
15°	2238	2254	2273
20°	2191	2224	2264
25°	2138	2186	2251
30°	2071	2143	2237
35°	2004	2102	2232
40°	1927	2061	2232
45°	1850	2022	2251
50°	1768	1991	2267
55°	1683	1971	2297
60°	1595	1956	2336
65°	1496	1945	2395
70°	1393	1939	2477
75°	1263	1937	2347
80°	1094	1793	2081
85°	929	1359	1321



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	80.6	3.4
10°-20°	228.2	9.6
20°-30°	339.5	14.3
30°-40°	401.5	16.9
40°-50°	412.7	17.3
50°-60°	377.1	15.8
60°-70°	301.7	12.7
70°-80°	189.3	8.0
80°-90°	49.3	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°	648.3	27.2
0°-40°	1049.8	44.1
0°-60°	1839.7	77.3
0°-90°	2380.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2380.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	850	850	850	850	850	
5°	846	846	855	850	843	80
15°	803	804	809	814	816	226
25°	720	724	736	749	758	331
35°	610	618	640	664	679	381
45°	486	499	531	571	591	375
55°	359	376	420	466	490	321
65°	235	256	306	352	376	233
75°	122	145	186	214	226	129
85°	30	38	44	43	43	35
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	849.5	849.5	849.5	849.5	849.5
2.5°	866.9	863.4	853.0	846.0	842.6
5°	846.0	846.0	855.3	849.5	842.6
7.5°	839.1	839.1	839.1	856.4	839.1
10°	829.8	831.0	832.1	839.1	832.1
12.5°	819.4	819.4	821.7	824.0	825.2
15°	803.2	804.4	809.0	813.6	815.9
17.5°	785.8	789.3	795.1	800.9	805.5
20°	765.0	769.6	776.6	785.8	790.5
22.5°	743.0	747.7	756.9	767.3	775.4
25°	719.9	724.5	736.1	748.8	758.1
27.5°	693.3	699.0	712.9	730.3	739.6
30°	666.6	673.6	689.8	709.5	719.9
32.5°	638.9	647.0	665.5	687.5	700.2
35°	609.9	618.0	640.0	664.3	679.4
37.5°	579.8	589.1	613.4	641.2	657.4
40°	548.6	559.0	586.8	616.9	635.4
42.5°	517.3	528.9	559.0	594.9	613.4
45°	486.1	498.8	531.2	570.6	591.4
47.5°	453.7	468.7	502.3	546.3	567.1
50°	422.4	437.5	475.7	520.8	541.6
52.5°	390.0	407.4	447.9	494.2	516.2
55°	358.8	376.1	420.1	466.4	489.6
57.5°	327.5	344.9	391.2	438.6	461.8
60°	296.3	314.8	363.4	409.7	434.0
62.5°	265.0	284.7	334.5	381.9	405.1
65°	234.9	255.8	305.5	351.8	376.1
67.5°	206.0	228.0	276.6	321.7	346.1
70°	177.1	199.1	246.5	290.5	314.8
72.5°	149.3	171.3	217.6	256.9	275.5
75°	121.5	144.7	186.3	214.1	225.7
77.5°	94.9	118.1	153.9	172.4	185.2
80°	70.6	90.3	115.7	129.6	134.3
82.5°	48.6	64.8	81.0	84.5	86.8
85°	30.1	38.2	44.0	42.8	42.8
87.5°	13.9	15.0	12.7	9.3	5.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)