

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: P259446

Luminaire Tested: **22CZ-LD5-24-S-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P259446  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25712)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22CZ-LD5-24-S-UNV-L82765-W2A1-U-3000K  
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS  
Light Source: (168) 80 CRI LEDS TUNED AT 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2347.0 lumens  
Efficiency: N/A  
Efficacy: 134.2 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

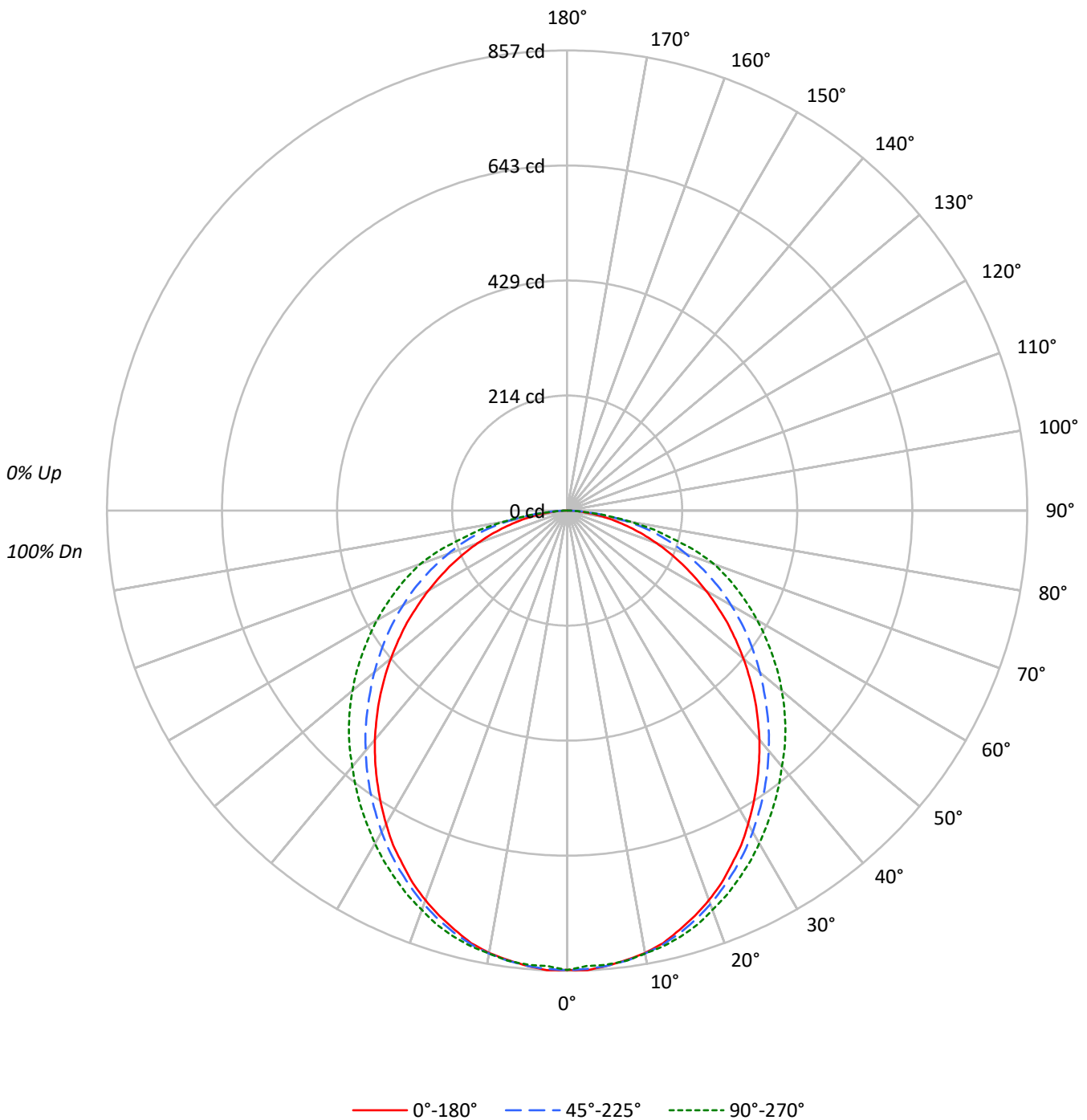
Input Watts (W): 17.484  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83
2	99	90	83	77	96	88	82	77	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	62	69	64	60	58
4	82	70	61	54	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43
6	70	56	47	41	68	56	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	26	52	39	32	26	38	31	26	37	31	26	36	30	26	24

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

	0°	45°	90°
0°	2302	2302	2302
5°	2299	2299	2293
10°	2286	2289	2289
15°	2252	2267	2286
20°	2211	2234	2266
25°	2156	2192	2246
30°	2095	2147	2224
35°	2026	2100	2203
40°	1956	2051	2186
45°	1879	2003	2188
50°	1793	1963	2185
55°	1708	1931	2184
60°	1608	1899	2202
65°	1507	1873	2232
70°	1393	1854	2288
75°	1254	1840	2121
80°	1100	1712	1852
85°	905	1288	1149



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	80.8	3.4
10°-20°	229.5	9.8
20°-30°	340.9	14.5
30°-40°	401.3	17.1
40°-50°	409.1	17.4
50°-60°	369.0	15.7
60°-70°	290.6	12.4
70°-80°	179.3	7.6
80°-90°	46.5	2.0
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°	651.2	27.7
0°-40°	1052.5	44.8
0°-60°	1830.6	78.0
0°-90°	2347.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2347.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	856	856	856	856	856	
5°	851	852	851	850	849	81
15°	808	812	814	818	821	228
25°	726	730	738	751	756	335
35°	617	623	639	660	671	386
45°	494	502	526	558	575	381
55°	364	376	412	449	466	325
65°	237	254	294	331	351	234
75°	121	141	177	197	204	129
85°	29	37	42	40	37	34
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	855.6	855.6	855.6	855.6	855.6
2.5°	856.7	856.7	854.5	852.2	848.9
5°	851.1	852.2	851.1	850.0	848.9
7.5°	844.3	845.5	845.5	845.5	845.5
10°	836.5	837.6	837.6	837.6	837.6
12.5°	825.2	826.3	827.4	828.6	830.8
15°	808.3	811.7	813.9	818.4	820.7
17.5°	791.4	794.7	798.1	803.8	808.3
20°	772.2	774.5	780.1	786.9	791.4
22.5°	750.8	754.2	759.8	768.8	775.6
25°	726.0	730.5	738.4	750.8	756.4
27.5°	702.3	705.7	715.8	729.4	737.3
30°	674.1	678.6	691.0	707.9	715.8
32.5°	645.9	651.6	665.1	684.3	693.3
35°	616.6	623.4	639.2	659.5	670.7
37.5°	587.3	594.1	612.1	634.7	647.1
40°	556.9	563.6	583.9	608.7	622.3
42.5°	525.3	533.2	555.8	583.9	599.7
45°	493.8	501.6	526.4	558.0	574.9
47.5°	461.1	470.1	497.1	532.1	549.0
50°	428.4	438.5	469.0	505.0	521.9
52.5°	395.7	407.0	439.6	476.8	494.9
55°	364.1	376.5	411.5	448.7	465.6
57.5°	330.3	345.0	382.2	418.2	437.4
60°	298.7	314.5	352.8	388.9	409.2
62.5°	267.2	284.1	324.7	360.7	379.9
65°	236.7	253.6	294.2	331.4	350.6
67.5°	206.3	225.5	264.9	302.1	321.3
70°	177.0	197.3	235.6	271.7	290.8
72.5°	148.8	169.1	207.4	241.2	252.5
75°	120.6	140.9	177.0	197.3	204.0
77.5°	94.7	113.9	145.4	157.8	166.8
80°	71.0	87.9	110.5	118.4	119.5
82.5°	48.5	63.1	76.7	77.8	76.7
85°	29.3	37.2	41.7	39.5	37.2
87.5°	13.5	14.7	13.5	9.0	5.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)