

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: P259284

Luminaire Tested: **22CZ-LD5-24-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P259284  
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-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: 2541.0 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

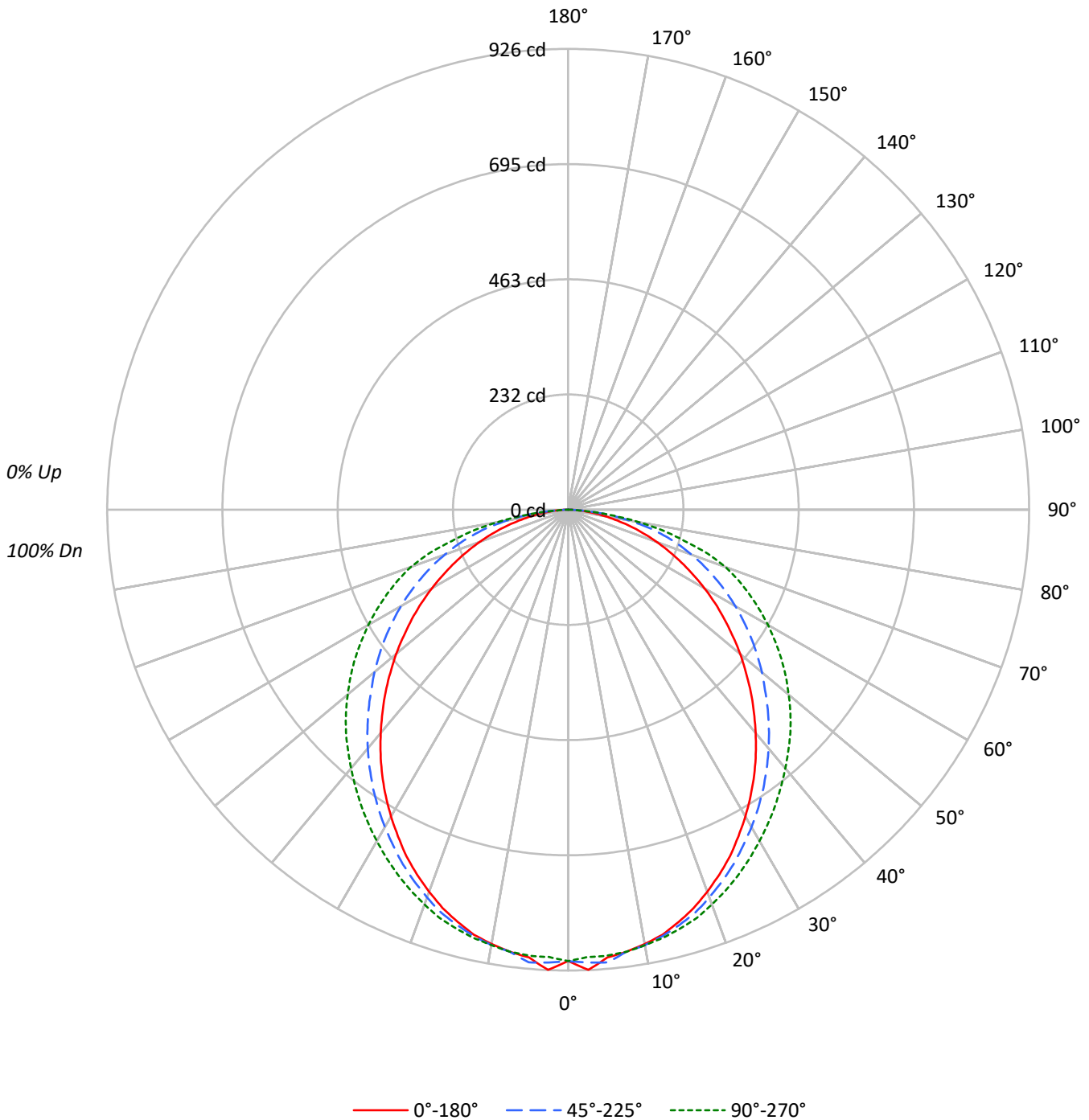
Input Watts (W): 18.042  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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					100			
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69					69			
3	90	79	70	64	87	77	69	63	74	68	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43					43			
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37					37			
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33					33			
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29					29			
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26					26			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24					24			

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

	0°	45°	90°
0°	2441	2441	2441
5°	2440	2467	2430
10°	2421	2428	2428
15°	2389	2406	2427
20°	2339	2374	2417
25°	2282	2333	2403
30°	2211	2288	2388
35°	2139	2245	2383
40°	2057	2201	2383
45°	1975	2159	2403
50°	1888	2126	2421
55°	1797	2104	2452
60°	1702	2088	2494
65°	1597	2077	2557
70°	1488	2071	2644
75°	1349	2068	2506
80°	1168	1915	2221
85°	991	1451	1411



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	86.0	3.4
10°-20°	243.7	9.6
20°-30°	362.5	14.3
30°-40°	428.7	16.9
40°-50°	440.6	17.3
50°-60°	402.6	15.8
60°-70°	322.1	12.7
70°-80°	202.1	8.0
80°-90°	52.7	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°	692.2	27.2
0°-40°	1120.9	44.1
0°-60°	1964.1	77.3
0°-90°	2541.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2541.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	907	907	907	907	907	
5°	903	903	913	907	900	86
15°	858	859	864	869	871	242
25°	769	774	786	800	809	353
35°	651	660	683	709	725	407
45°	519	533	567	609	631	400
55°	383	402	448	498	523	343
65°	251	273	326	376	402	249
75°	130	154	199	229	241	138
85°	32	41	47	46	46	37
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	907.0	907.0	907.0	907.0	907.0
2.5°	925.5	921.8	910.7	903.3	899.6
5°	903.3	903.3	913.1	907.0	899.6
7.5°	895.8	895.8	895.8	914.4	895.8
10°	886.0	887.2	888.4	895.8	888.4
12.5°	874.8	874.8	877.3	879.8	881.0
15°	857.5	858.8	863.7	868.7	871.1
17.5°	839.0	842.7	848.9	855.1	860.0
20°	816.8	821.7	829.1	839.0	844.0
22.5°	793.3	798.2	808.1	819.2	827.9
25°	768.6	773.5	785.9	799.5	809.4
27.5°	740.2	746.3	761.2	779.7	789.6
30°	711.7	719.1	736.4	757.5	768.6
32.5°	682.1	690.7	710.5	734.0	747.6
35°	651.2	659.8	683.3	709.3	725.3
37.5°	619.1	628.9	654.9	684.6	701.9
40°	585.7	596.8	626.5	658.6	678.4
42.5°	552.3	564.7	596.8	635.1	654.9
45°	519.0	532.6	567.2	609.2	631.4
47.5°	484.4	500.4	536.3	583.2	605.5
50°	451.0	467.1	507.9	556.0	578.3
52.5°	416.4	434.9	478.2	527.6	551.1
55°	383.1	401.6	448.5	498.0	522.7
57.5°	349.7	368.2	417.7	468.3	493.0
60°	316.3	336.1	388.0	437.4	463.4
62.5°	283.0	304.0	357.1	407.8	432.5
65°	250.8	273.1	326.2	375.6	401.6
67.5°	219.9	243.4	295.3	343.5	369.5
70°	189.1	212.5	263.2	310.1	336.1
72.5°	159.4	182.9	232.3	274.3	294.1
75°	129.7	154.5	198.9	228.6	241.0
77.5°	101.3	126.0	164.3	184.1	197.7
80°	75.4	96.4	123.6	138.4	143.3
82.5°	51.9	69.2	86.5	90.2	92.7
85°	32.1	40.8	47.0	45.7	45.7
87.5°	14.8	16.1	13.6	9.9	6.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)