

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: P259294

Luminaire Tested: **22CZ-LD5-29-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P259294  
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-LD5-29-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: 2979.0 lumens  
Efficiency: N/A  
Efficacy: 136.9 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

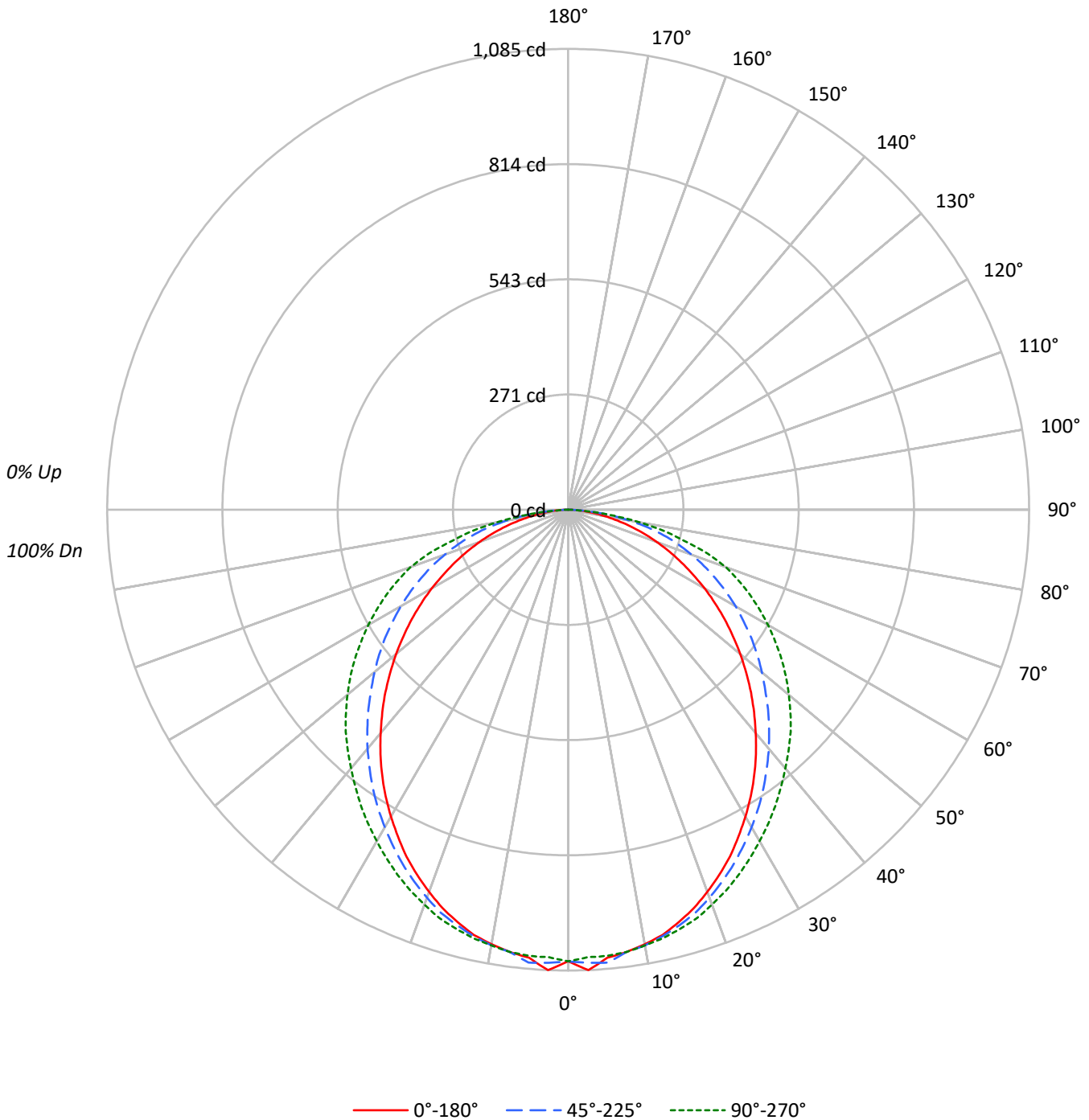
Input Watts (W): 21.762  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2861	2861	2861
5°	2861	2892	2849
10°	2838	2846	2846
15°	2801	2821	2845
20°	2742	2783	2833
25°	2676	2735	2817
30°	2593	2683	2800
35°	2508	2632	2794
40°	2412	2580	2794
45°	2315	2530	2817
50°	2214	2493	2838
55°	2107	2467	2875
60°	1996	2448	2923
65°	1873	2435	2998
70°	1744	2428	3100
75°	1581	2425	2937
80°	1370	2245	2603
85°	1164	1698	1655



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	100.9	3.4
10°-20°	285.7	9.6
20°-30°	425.0	14.3
30°-40°	502.6	16.9
40°-50°	516.6	17.3
50°-60°	472.0	15.8
60°-70°	377.6	12.7
70°-80°	237.0	8.0
80°-90°	61.7	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°	811.5	27.2
0°-40°	1314.1	44.1
0°-60°	2302.7	77.3
0°-90°	2979.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2979.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1063	1063	1063	1063	1063	
5°	1059	1059	1070	1063	1055	101
15°	1005	1007	1013	1018	1021	283
25°	901	907	921	937	949	414
35°	763	774	801	832	850	477
45°	608	624	665	714	740	469
55°	449	471	526	584	613	402
65°	294	320	382	440	471	292
75°	152	181	233	268	282	162
85°	38	48	55	54	54	44
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1063.3	1063.3	1063.3	1063.3	1063.3
2.5°	1085.0	1080.7	1067.7	1059.0	1054.6
5°	1059.0	1059.0	1070.5	1063.3	1054.6
7.5°	1050.3	1050.3	1050.3	1072.0	1050.3
10°	1038.7	1040.1	1041.6	1050.3	1041.6
12.5°	1025.6	1025.6	1028.5	1031.4	1032.9
15°	1005.4	1006.8	1012.6	1018.4	1021.3
17.5°	983.6	988.0	995.2	1002.5	1008.3
20°	957.6	963.3	972.0	983.6	989.4
22.5°	930.0	935.8	947.4	960.5	970.6
25°	901.1	906.9	921.3	937.3	948.9
27.5°	867.7	875.0	892.4	914.1	925.7
30°	834.4	843.1	863.4	888.0	901.1
32.5°	799.7	809.8	833.0	860.5	876.4
35°	763.4	773.6	801.1	831.5	850.4
37.5°	725.8	737.4	767.8	802.5	822.8
40°	686.7	699.7	734.5	772.1	795.3
42.5°	647.5	662.0	699.7	744.6	767.8
45°	608.4	624.4	664.9	714.2	740.3
47.5°	567.9	586.7	628.7	683.8	709.8
50°	528.8	547.6	595.4	651.9	678.0
52.5°	488.2	509.9	560.6	618.6	646.1
55°	449.1	470.8	525.9	583.8	612.8
57.5°	410.0	431.7	489.6	549.0	578.0
60°	370.9	394.0	454.9	512.8	543.2
62.5°	331.7	356.4	418.7	478.1	507.0
65°	294.1	320.2	382.4	440.4	470.8
67.5°	257.9	285.4	346.2	402.7	433.1
70°	221.6	249.2	308.6	363.6	394.0
72.5°	186.9	214.4	272.3	321.6	344.8
75°	152.1	181.1	233.2	268.0	282.5
77.5°	118.8	147.8	192.7	215.8	231.8
80°	88.4	113.0	144.9	162.2	168.0
82.5°	60.8	81.1	101.4	105.8	108.6
85°	37.7	47.8	55.0	53.6	53.6
87.5°	17.4	18.8	15.9	11.6	7.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)