

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: P#

Luminaire Tested: **22CZ-LD5-29-UNV-L840-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P#  
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-L840-CD1-U  
Description: CRUZE 2x2 LED TROFFER

Light Source: -  
Ballast/Driver: -

**Summary**

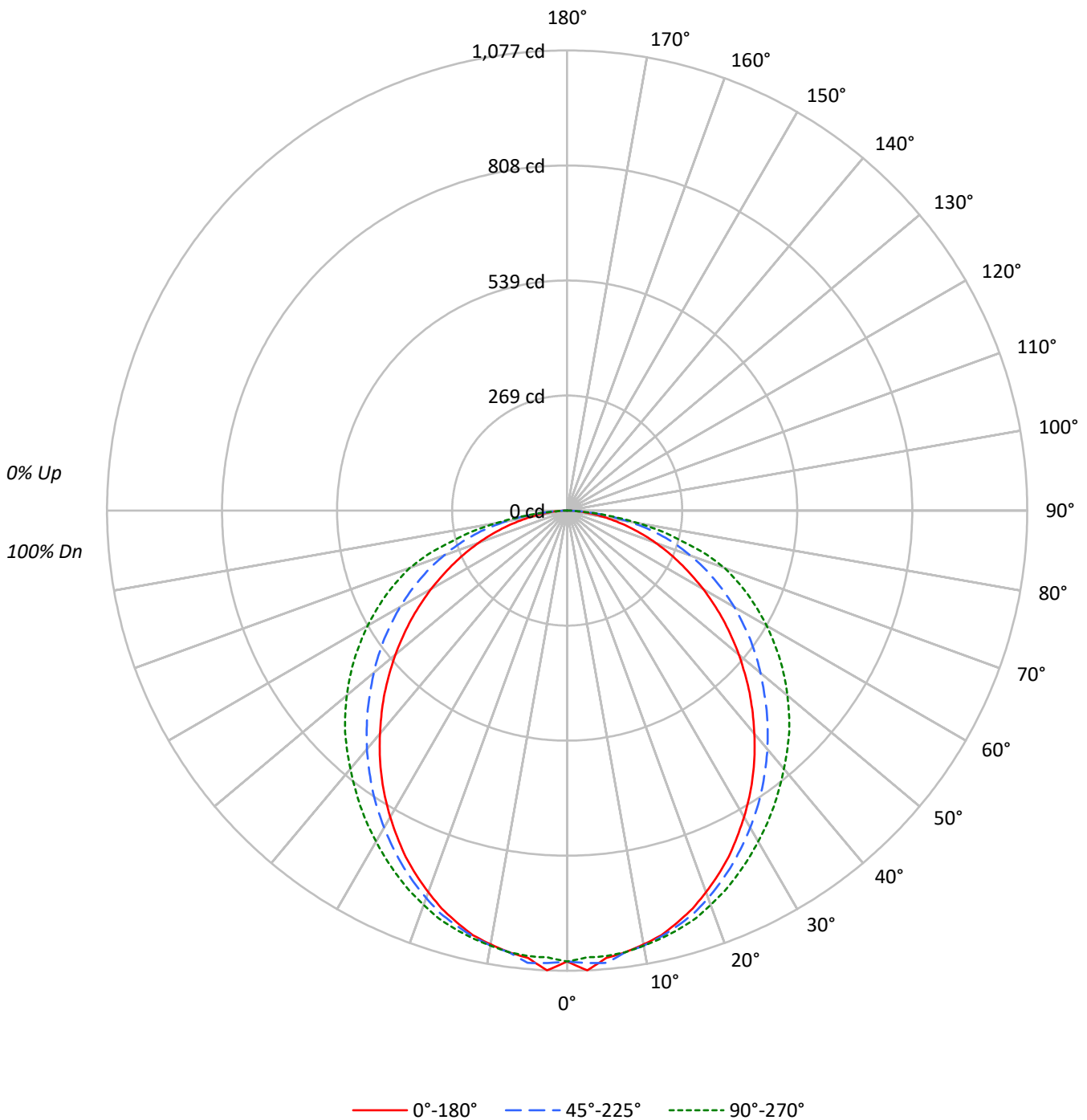
Lumens per Lamp: N/A  
Luminaire Lumens: 2957.0 lumens  
Efficiency: N/A  
Efficacy: 125.8 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.26 / 1.34  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 23.5  
Input Voltage (V): NR  
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°	2840	2840	2840
5°	2827	2853	2815
10°	2793	2790	2800
15°	2743	2748	2787
20°	2673	2694	2762
25°	2595	2629	2733
30°	2502	2558	2701
35°	2405	2489	2679
40°	2298	2417	2661
45°	2189	2346	2663
50°	2073	2282	2659
55°	1952	2224	2663
60°	1823	2165	2671
65°	1679	2099	2687
70°	1522	2018	2705
75°	1323	1904	2457
80°	1059	1591	2014
85°	735	932	1045



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	100.1	3.4
10°-20°	283.6	9.6
20°-30°	421.8	14.3
30°-40°	498.9	16.9
40°-50°	512.8	17.3
50°-60°	468.5	15.8
60°-70°	374.8	12.7
70°-80°	235.2	8.0
80°-90°	61.3	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°	805.5	27.2
0°-40°	1304.4	44.1
0°-60°	2285.7	77.3
0°-90°	2957.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2957.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1055	1055	1055	1055	1055	
5°	1051	1051	1063	1055	1047	100
15°	998	999	1005	1011	1014	281
25°	894	900	914	930	942	411
35°	758	768	795	825	844	474
45°	604	620	660	709	735	466
55°	446	467	522	580	608	399
65°	292	318	380	437	467	290
75°	151	180	232	266	280	160
85°	37	48	55	53	53	43
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1055.4	1055.4	1055.4	1055.4	1055.4
2.5°	1077.0	1072.7	1059.8	1051.1	1046.8
5°	1051.1	1051.1	1062.6	1055.4	1046.8
7.5°	1042.5	1042.5	1042.5	1064.1	1042.5
10°	1031.0	1032.4	1033.9	1042.5	1033.9
12.5°	1018.1	1018.1	1020.9	1023.8	1025.2
15°	997.9	999.4	1005.1	1010.9	1013.7
17.5°	976.4	980.7	987.9	995.1	1000.8
20°	950.5	956.2	964.9	976.4	982.1
22.5°	923.2	928.9	940.4	953.4	963.4
25°	894.4	900.1	914.5	930.3	941.8
27.5°	861.3	868.5	885.8	907.3	918.8
30°	828.3	836.9	857.0	881.5	894.4
32.5°	793.7	803.8	826.8	854.1	870.0
35°	757.8	767.9	795.2	825.4	844.1
37.5°	720.4	731.9	762.1	796.6	816.7
40°	681.6	694.5	729.0	766.4	789.4
42.5°	642.8	657.1	694.5	739.1	762.1
45°	603.9	619.8	660.0	708.9	734.8
47.5°	563.7	582.4	624.1	678.7	704.6
50°	524.8	543.5	591.0	647.1	673.0
52.5°	484.6	506.2	556.5	614.0	641.3
55°	445.8	467.3	522.0	579.5	608.2
57.5°	406.9	428.5	486.0	545.0	573.7
60°	368.1	391.1	451.5	509.0	539.2
62.5°	329.3	353.7	415.6	474.5	503.3
65°	291.9	317.8	379.6	437.1	467.3
67.5°	256.0	283.3	343.7	399.7	429.9
70°	220.0	247.3	306.3	360.9	391.1
72.5°	185.5	212.8	270.3	319.2	342.2
75°	151.0	179.7	231.5	266.0	280.4
77.5°	117.9	146.7	191.2	214.3	230.1
80°	87.7	112.2	143.8	161.0	166.8
82.5°	60.4	80.5	100.7	105.0	107.8
85°	37.4	47.5	54.6	53.2	53.2
87.5°	17.3	18.7	15.8	11.5	7.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)