

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-LD5-32SE-S-UNV-L830-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 (P25712)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22CZ-LD5-32SE-S-UNV-L830-CD1-U  
Description: CRUZE 2x2 LED TROFFER

Light Source: -  
Ballast/Driver: -

**Summary**

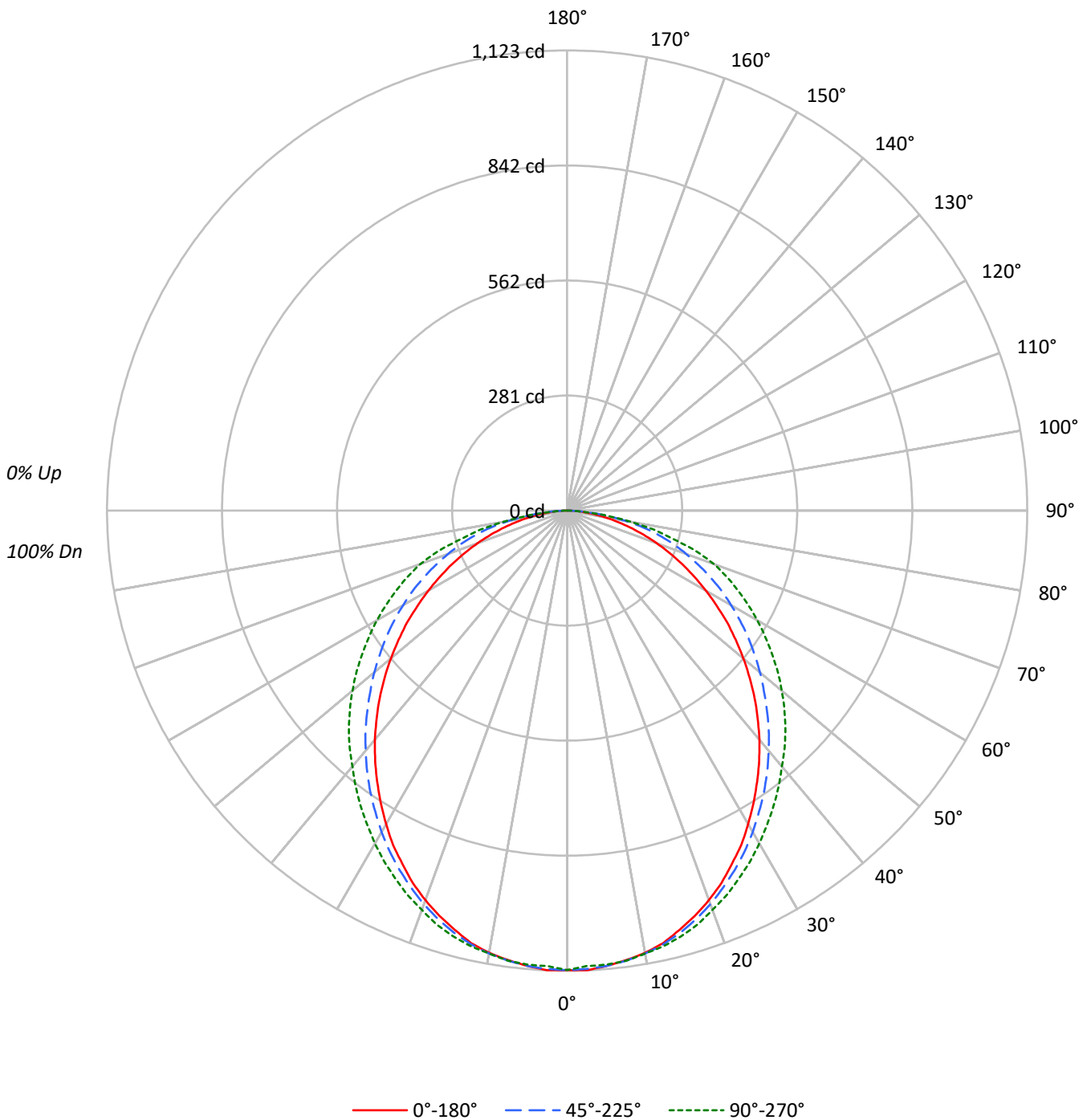
Lumens per Lamp: N/A  
Luminaire Lumens: 3075.4 lumens  
Efficiency: N/A  
Efficacy: 100.7 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 30.53  
Input Voltage (V): NR  
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	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°	3017	3017	3017
5°	3000	2994	2992
10°	2969	2962	2973
15°	2912	2916	2956
20°	2846	2854	2916
25°	2760	2781	2876
30°	2668	2703	2833
35°	2565	2621	2790
40°	2460	2537	2749
45°	2345	2452	2730
50°	2218	2373	2702
55°	2089	2297	2672
60°	1939	2217	2656
65°	1784	2131	2642
70°	1604	2034	2636
75°	1385	1908	2342
80°	1124	1602	1891
85°	754	932	957



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	105.9	3.4
10°-20°	300.8	9.8
20°-30°	446.7	14.5
30°-40°	525.8	17.1
40°-50°	536.1	17.4
50°-60°	483.5	15.7
60°-70°	380.8	12.4
70°-80°	234.9	7.6
80°-90°	61.0	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°	853.3	27.7
0°-40°	1379.2	44.8
0°-60°	2398.7	78.0
0°-90°	3075.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3075.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1121	1121	1121	1121	1121	
5°	1115	1117	1115	1114	1112	106
15°	1059	1064	1066	1072	1075	299
25°	951	957	968	984	991	438
35°	808	817	838	864	879	505
45°	647	657	690	731	753	499
55°	477	493	539	588	610	426
65°	310	332	386	434	459	307
75°	158	185	232	258	267	169
85°	38	49	55	52	49	45
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1121.2	1121.2	1121.2	1121.2	1121.2
2.5°	1122.6	1122.6	1119.7	1116.7	1112.3
5°	1115.3	1116.7	1115.3	1113.8	1112.3
7.5°	1106.4	1107.9	1107.9	1107.9	1107.9
10°	1096.0	1097.5	1097.5	1097.5	1097.5
12.5°	1081.3	1082.7	1084.2	1085.8	1088.7
15°	1059.2	1063.5	1066.5	1072.5	1075.4
17.5°	1036.9	1041.4	1045.9	1053.3	1059.2
20°	1011.8	1014.8	1022.2	1031.0	1036.9
22.5°	983.8	988.2	995.6	1007.4	1016.3
25°	951.3	957.2	967.6	983.8	991.1
27.5°	920.3	924.7	938.0	955.7	966.1
30°	883.3	889.3	905.5	927.7	938.0
32.5°	846.4	853.8	871.5	896.6	908.5
35°	808.0	816.9	837.5	864.1	878.9
37.5°	769.6	778.4	802.1	831.6	847.9
40°	729.7	738.6	765.1	797.7	815.4
42.5°	688.4	698.7	728.3	765.1	785.8
45°	647.0	657.3	689.8	731.2	753.3
47.5°	604.2	616.0	651.4	697.2	719.3
50°	561.4	574.7	614.5	661.8	683.9
52.5°	518.5	533.2	576.1	624.8	648.5
55°	477.1	493.3	539.1	588.0	610.1
57.5°	432.8	452.0	500.7	548.1	573.1
60°	391.5	412.1	462.4	509.6	536.2
62.5°	350.1	372.2	425.4	472.7	497.8
65°	310.2	332.4	385.5	434.2	459.4
67.5°	270.3	295.4	347.1	395.9	420.9
70°	231.9	258.5	308.8	356.0	381.1
72.5°	194.9	221.5	271.8	316.2	330.9
75°	158.1	184.7	231.9	258.5	267.3
77.5°	124.1	149.2	190.6	206.8	218.6
80°	93.1	115.2	144.8	155.1	156.6
82.5°	63.6	82.7	100.4	101.9	100.4
85°	38.4	48.7	54.6	51.7	48.7
87.5°	17.8	19.2	17.8	11.8	7.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)