

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-LD5-20-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-LD5-20-UNV-L840-CD1-U  
Description: CRUZE 2x2 LED TROFFER

Light Source: -  
Ballast/Driver: -

**Summary**

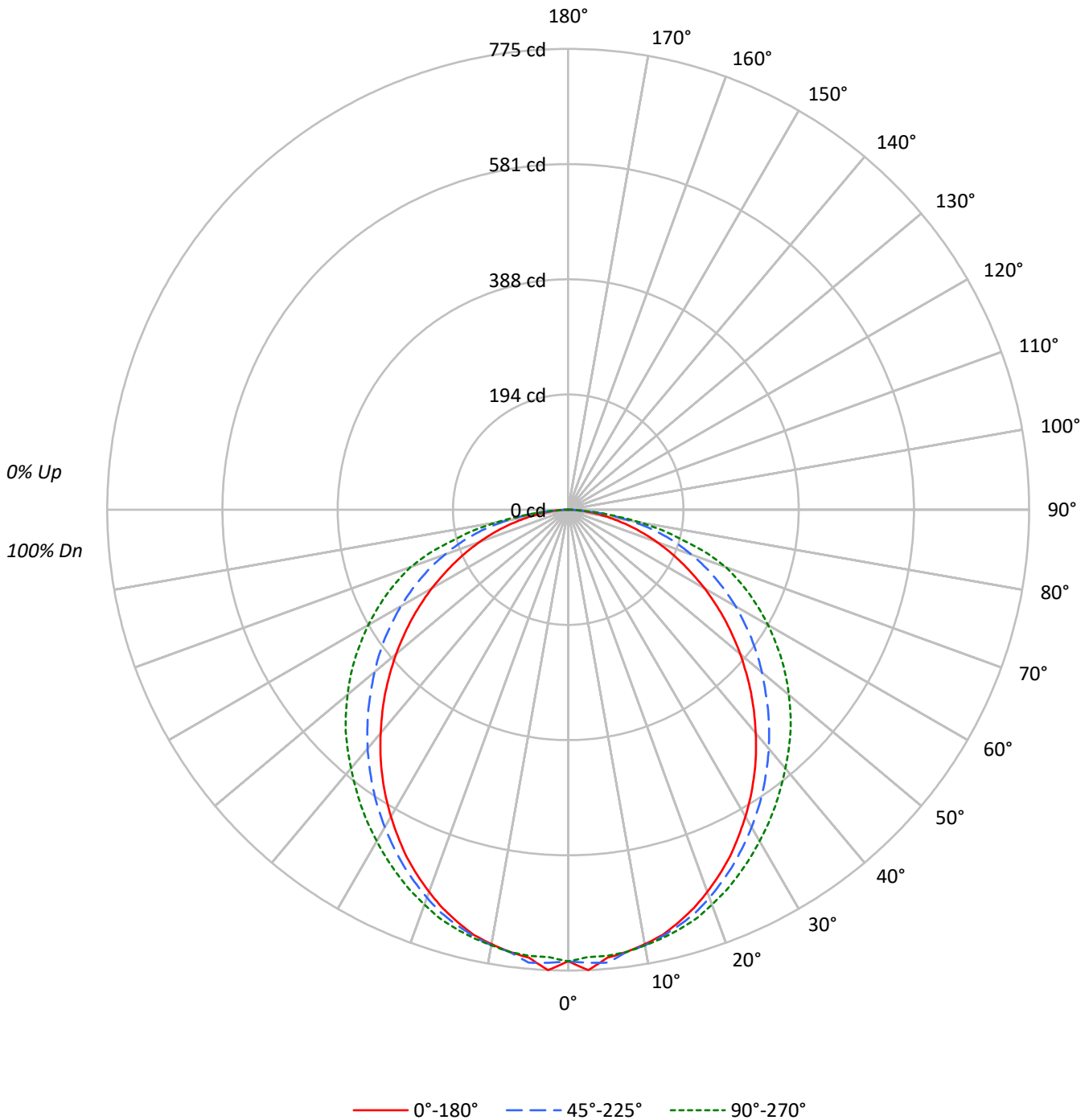
Lumens per Lamp: N/A  
Luminaire Lumens: 2127.7 lumens  
Efficiency: N/A  
Efficacy: 129.9 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.26 / 1.34  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 16.38  
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	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°	2044	2044	2044
5°	2034	2053	2026
10°	2010	2008	2015
15°	1974	1977	2005
20°	1923	1938	1988
25°	1867	1892	1966
30°	1800	1841	1944
35°	1731	1791	1928
40°	1653	1740	1915
45°	1575	1688	1916
50°	1492	1642	1913
55°	1405	1601	1917
60°	1312	1558	1922
65°	1208	1511	1934
70°	1095	1452	1947
75°	952	1370	1768
80°	762	1145	1449
85°	529	671	752



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	72.0	3.4
10°-20°	204.0	9.6
20°-30°	303.5	14.3
30°-40°	359.0	16.9
40°-50°	369.0	17.3
50°-60°	337.1	15.8
60°-70°	269.7	12.7
70°-80°	169.3	8.0
80°-90°	44.1	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°	579.6	27.2
0°-40°	938.6	44.1
0°-60°	1644.7	77.3
0°-90°	2127.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2127.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	760	760	760	760	760	
5°	756	756	765	760	753	72
15°	718	719	723	727	729	202
25°	644	648	658	669	678	296
35°	545	552	572	594	607	341
45°	435	446	475	510	529	335
55°	321	336	376	417	438	287
65°	210	229	273	314	336	208
75°	109	129	167	191	202	115
85°	27	34	39	38	38	31
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	759.5	759.5	759.5	759.5	759.5
2.5°	775.0	771.9	762.6	756.4	753.2
5°	756.4	756.4	764.6	759.5	753.2
7.5°	750.1	750.1	750.1	765.7	750.1
10°	741.9	742.9	743.9	750.1	743.9
12.5°	732.6	732.6	734.6	736.7	737.7
15°	718.1	719.1	723.2	727.4	729.4
17.5°	702.5	705.7	710.8	716.0	720.1
20°	683.9	688.1	694.3	702.5	706.7
22.5°	664.3	668.4	676.7	686.0	693.2
25°	643.6	647.7	658.1	669.4	677.7
27.5°	619.8	624.9	637.4	652.9	661.2
30°	596.0	602.2	616.7	634.3	643.6
32.5°	571.1	578.4	594.9	614.6	626.0
35°	545.3	552.5	572.2	593.9	607.4
37.5°	518.4	526.7	548.4	573.2	587.7
40°	490.4	499.8	524.6	551.5	568.0
42.5°	462.5	472.8	499.8	531.8	548.4
45°	434.6	445.9	474.9	510.1	528.7
47.5°	405.6	419.0	449.1	488.4	507.0
50°	377.7	391.1	425.3	465.6	484.2
52.5°	348.7	364.2	400.4	441.8	461.5
55°	320.8	336.3	375.6	417.0	437.7
57.5°	292.8	308.3	349.7	392.1	412.8
60°	264.9	281.4	324.9	366.3	388.0
62.5°	236.9	254.5	299.0	341.4	362.1
65°	210.0	228.7	273.2	314.5	336.3
67.5°	184.2	203.8	247.3	287.6	309.4
70°	158.3	178.0	220.4	259.7	281.4
72.5°	133.5	153.1	194.5	229.7	246.3
75°	108.6	129.3	166.6	191.4	201.8
77.5°	84.8	105.5	137.6	154.2	165.5
80°	63.1	80.7	103.5	115.9	120.0
82.5°	43.5	57.9	72.4	75.5	77.6
85°	26.9	34.1	39.3	38.3	38.3
87.5°	12.4	13.5	11.4	8.3	5.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)