

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-LD5-24-S-UNV-L850-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-LD5-24-S-UNV-L850-CD1-U
Description: CRUZE 2x2 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2779.7 lumens
Efficiency: N/A
Efficacy: 141.7 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

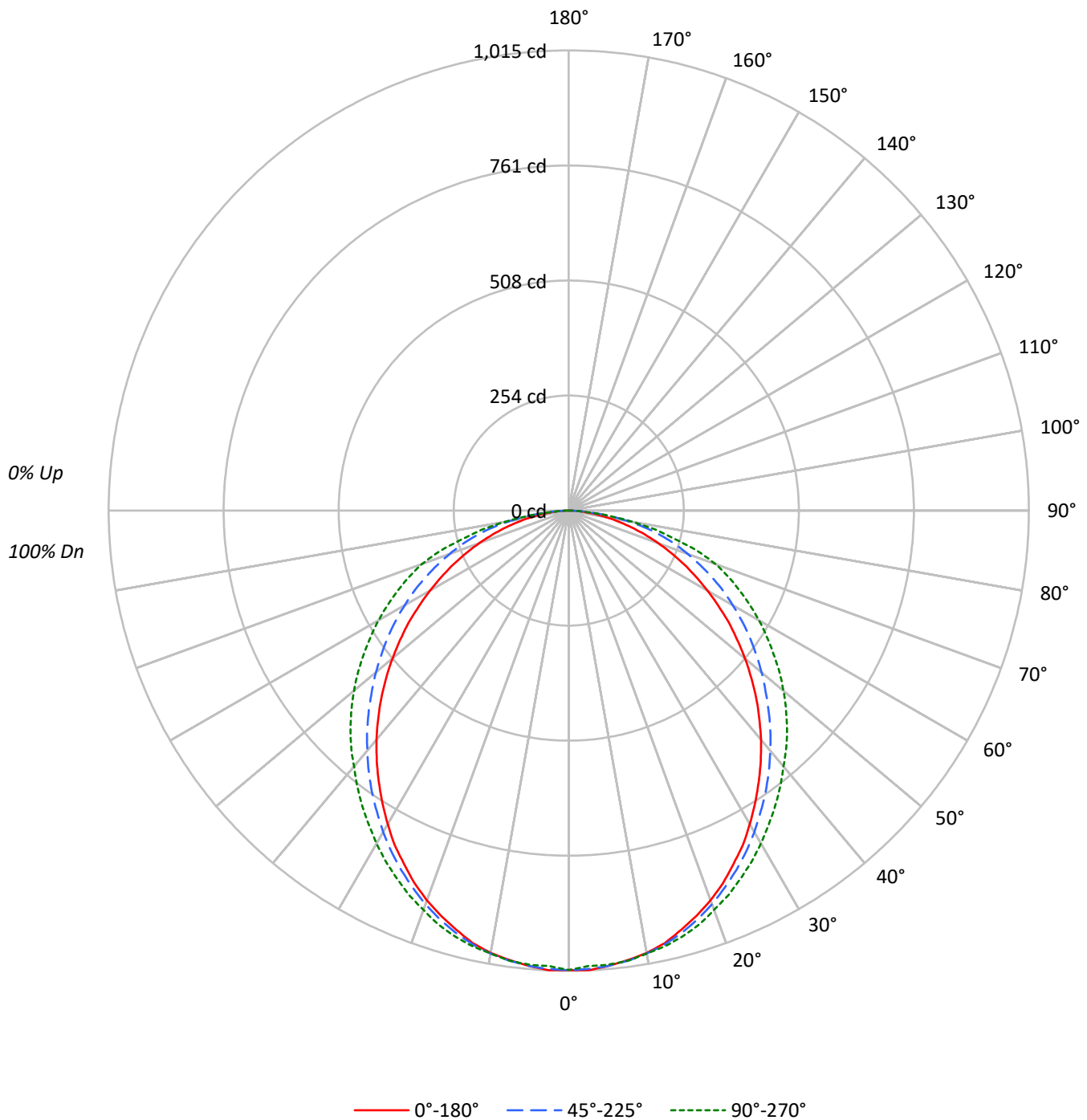
Input Watts (W): 19.62
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
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°	2727	2727	2727
5°	2711	2706	2704
10°	2683	2677	2687
15°	2632	2636	2672
20°	2572	2579	2636
25°	2495	2514	2599
30°	2411	2444	2560
35°	2318	2369	2521
40°	2224	2293	2485
45°	2120	2216	2468
50°	2005	2144	2443
55°	1889	2077	2415
60°	1752	2004	2401
65°	1613	1927	2388
70°	1450	1838	2383
75°	1252	1724	2118
80°	1015	1447	1708
85°	682	844	866



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.7	3.4
10°-20°	271.8	9.8
20°-30°	403.8	14.5
30°-40°	475.3	17.1
40°-50°	484.5	17.4
50°-60°	437.0	15.7
60°-70°	344.2	12.4
70°-80°	212.3	7.6
80°-90°	55.1	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°	771.3	27.7
0°-40°	1246.6	44.8
0°-60°	2168.1	78.0
0°-90°	2779.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2779.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1013	1013	1013	1013	1013	
5°	1008	1009	1008	1007	1005	96
15°	957	961	964	969	972	270
25°	860	865	874	889	896	396
35°	730	738	757	781	794	457
45°	585	594	624	661	681	451
55°	431	446	487	531	551	385
65°	280	300	348	392	415	278
75°	143	167	210	234	242	152
85°	35	44	49	47	44	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1013.4	1013.4	1013.4	1013.4	1013.4
2.5°	1014.7	1014.7	1012.1	1009.4	1005.4
5°	1008.0	1009.4	1008.0	1006.7	1005.4
7.5°	1000.0	1001.4	1001.4	1001.4	1001.4
10°	990.7	992.0	992.0	992.0	992.0
12.5°	977.3	978.7	980.0	981.3	984.0
15°	957.3	961.3	964.0	969.3	972.0
17.5°	937.3	941.3	945.3	952.0	957.3
20°	914.6	917.3	923.9	931.9	937.3
22.5°	889.2	893.2	899.9	910.6	918.6
25°	859.8	865.2	874.5	889.2	895.9
27.5°	831.8	835.8	847.8	863.9	873.2
30°	798.4	803.8	818.5	838.5	847.8
32.5°	765.0	771.7	787.7	810.4	821.1
35°	730.3	738.3	757.0	781.1	794.4
37.5°	695.6	703.6	725.0	751.7	766.4
40°	659.6	667.6	691.6	721.0	737.0
42.5°	622.2	631.5	658.2	691.6	710.3
45°	584.8	594.1	623.5	660.9	680.9
47.5°	546.1	556.8	588.8	630.2	650.2
50°	507.4	519.4	555.4	598.2	618.2
52.5°	468.6	482.0	520.7	564.8	586.1
55°	431.3	445.9	487.3	531.4	551.4
57.5°	391.2	408.6	452.6	495.3	518.0
60°	353.8	372.5	417.9	460.6	484.7
62.5°	316.4	336.5	384.5	427.3	449.9
65°	280.4	300.4	348.5	392.5	415.2
67.5°	244.3	267.0	313.8	357.8	380.5
70°	209.6	233.7	279.0	321.8	344.5
72.5°	176.2	200.3	245.7	285.7	299.1
75°	142.9	166.9	209.6	233.7	241.7
77.5°	112.2	134.9	172.2	186.9	197.6
80°	84.1	104.1	130.8	140.2	141.5
82.5°	57.4	74.8	90.8	92.1	90.8
85°	34.7	44.1	49.4	46.7	44.1
87.5°	16.0	17.4	16.0	10.7	6.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)