

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-S-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 (P25712)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-29-S-UNV-L840-CD1-U
Description: CRUZE 2x2 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3016.1 lumens
Efficiency: N/A
Efficacy: 128.3 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

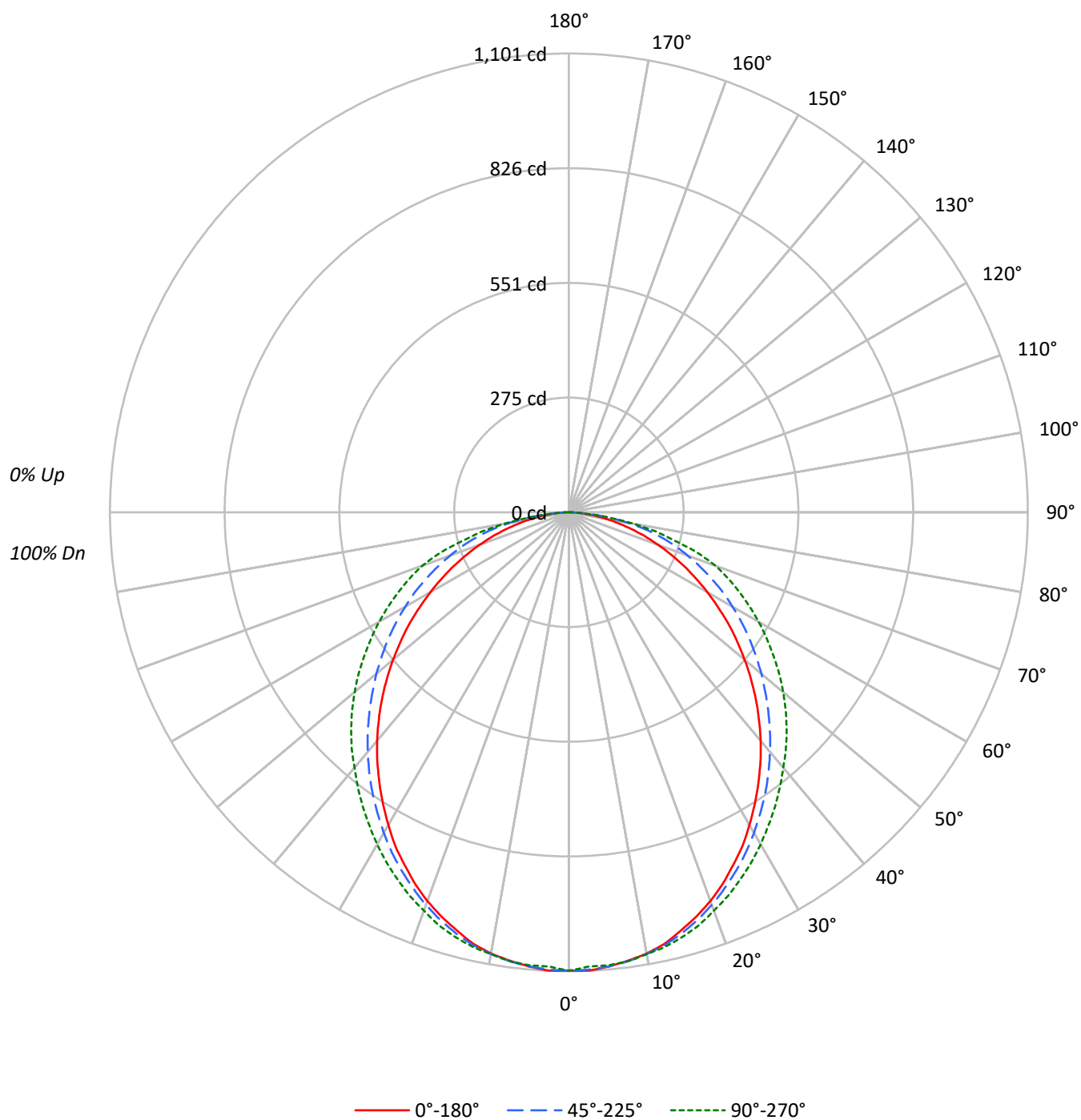
Input Watts (W): 23.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				0
RW	70	50	30	10	70	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		100
1	109	104	99	95	106	101	97	94	97	94	91		93	91	88		83
2	99	90	83	77	96	88	82	77	85	79	75		81	77	73		69
3	90	79	71	64	87	78	70	64	75	68	63		72	66	62		58
4	82	70	61	54	80	69	61	54	66	59	53		64	58	53		50
5	76	63	54	47	74	62	53	47	59	52	46		57	51	46		43
6	70	56	47	41	68	56	47	41	54	46	40		52	45	40		38
7	65	51	42	36	63	50	42	36	49	41	36		47	41	36		33
8	60	47	38	32	59	46	38	32	45	37	32		43	37	32		30
9	56	43	35	29	55	42	34	29	41	34	29		40	34	29		27
10	53	40	32	26	52	39	32	26	38	31	26		37	31	26		24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2959	2959	2959
5°	2942	2936	2934
10°	2911	2905	2916
15°	2855	2860	2899
20°	2791	2799	2860
25°	2707	2728	2821
30°	2616	2651	2778
35°	2515	2571	2736
40°	2413	2488	2696
45°	2300	2404	2678
50°	2175	2327	2650
55°	2049	2253	2620
60°	1901	2174	2605
65°	1749	2091	2591
70°	1573	1995	2586
75°	1358	1871	2297
80°	1102	1571	1854
85°	741	915	939



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.8	3.4
10°-20°	295.0	9.8
20°-30°	438.1	14.5
30°-40°	515.7	17.1
40°-50°	525.7	17.4
50°-60°	474.2	15.7
60°-70°	373.5	12.4
70°-80°	230.4	7.6
80°-90°	59.8	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°	836.9	27.7
0°-40°	1352.6	44.8
0°-60°	2352.5	78.0
0°-90°	3016.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3016.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1100	1100	1100	1100	1100	
5°	1094	1095	1094	1092	1091	104
15°	1039	1043	1046	1052	1055	293
25°	933	939	949	965	972	430
35°	792	801	821	848	862	496
45°	634	645	676	717	739	489
55°	468	484	529	577	598	418
65°	304	326	378	426	450	301
75°	155	181	227	254	262	165
85°	38	48	54	51	48	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1099.6	1099.6	1099.6	1099.6	1099.6
2.5°	1101.0	1101.0	1098.1	1095.2	1090.9
5°	1093.8	1095.2	1093.8	1092.3	1090.9
7.5°	1085.1	1086.5	1086.5	1086.5	1086.5
10°	1074.9	1076.4	1076.4	1076.4	1076.4
12.5°	1060.4	1061.9	1063.3	1064.8	1067.7
15°	1038.7	1043.1	1046.0	1051.7	1054.6
17.5°	1017.0	1021.3	1025.7	1032.9	1038.7
20°	992.4	995.2	1002.5	1011.2	1017.0
22.5°	964.8	969.2	976.4	988.0	996.7
25°	933.0	938.7	948.9	964.8	972.1
27.5°	902.5	906.9	919.9	937.3	947.4
30°	866.3	872.1	888.0	909.8	919.9
32.5°	830.1	837.3	854.7	879.4	890.9
35°	792.4	801.1	821.4	847.5	862.0
37.5°	754.8	763.5	786.6	815.6	831.5
40°	715.7	724.3	750.4	782.3	799.7
42.5°	675.1	685.2	714.2	750.4	770.7
45°	634.5	644.7	676.5	717.1	738.8
47.5°	592.5	604.1	638.9	683.8	705.5
50°	550.5	563.5	602.7	649.0	670.7
52.5°	508.5	523.0	565.0	612.8	636.0
55°	467.9	483.9	528.8	576.6	598.3
57.5°	424.5	443.3	491.1	537.5	562.1
60°	383.9	404.2	453.4	499.8	525.9
62.5°	343.3	365.1	417.2	463.6	488.2
65°	304.2	326.0	378.1	425.9	450.5
67.5°	265.1	289.7	340.4	388.2	412.9
70°	227.4	253.5	302.8	349.1	373.8
72.5°	191.2	217.3	266.6	310.0	324.5
75°	155.0	181.1	227.4	253.5	262.2
77.5°	121.7	146.3	186.9	202.8	214.4
80°	91.3	113.0	142.0	152.1	153.6
82.5°	62.3	81.1	98.5	100.0	98.5
85°	37.7	47.8	53.6	50.7	47.8
87.5°	17.4	18.8	17.4	11.6	7.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)