

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: P230588

Luminaire Tested: **22CZ-LD5-34-S-UNV-L930-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230588
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-LD5-34-S-UNV-L930-CD1-U
Description: CRUZE 2x2 LED TROFFER
WITH SMOOTH LENS
Light Source: (84) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2955.0 lumens
Efficiency: N/A
Efficacy: 100.5 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

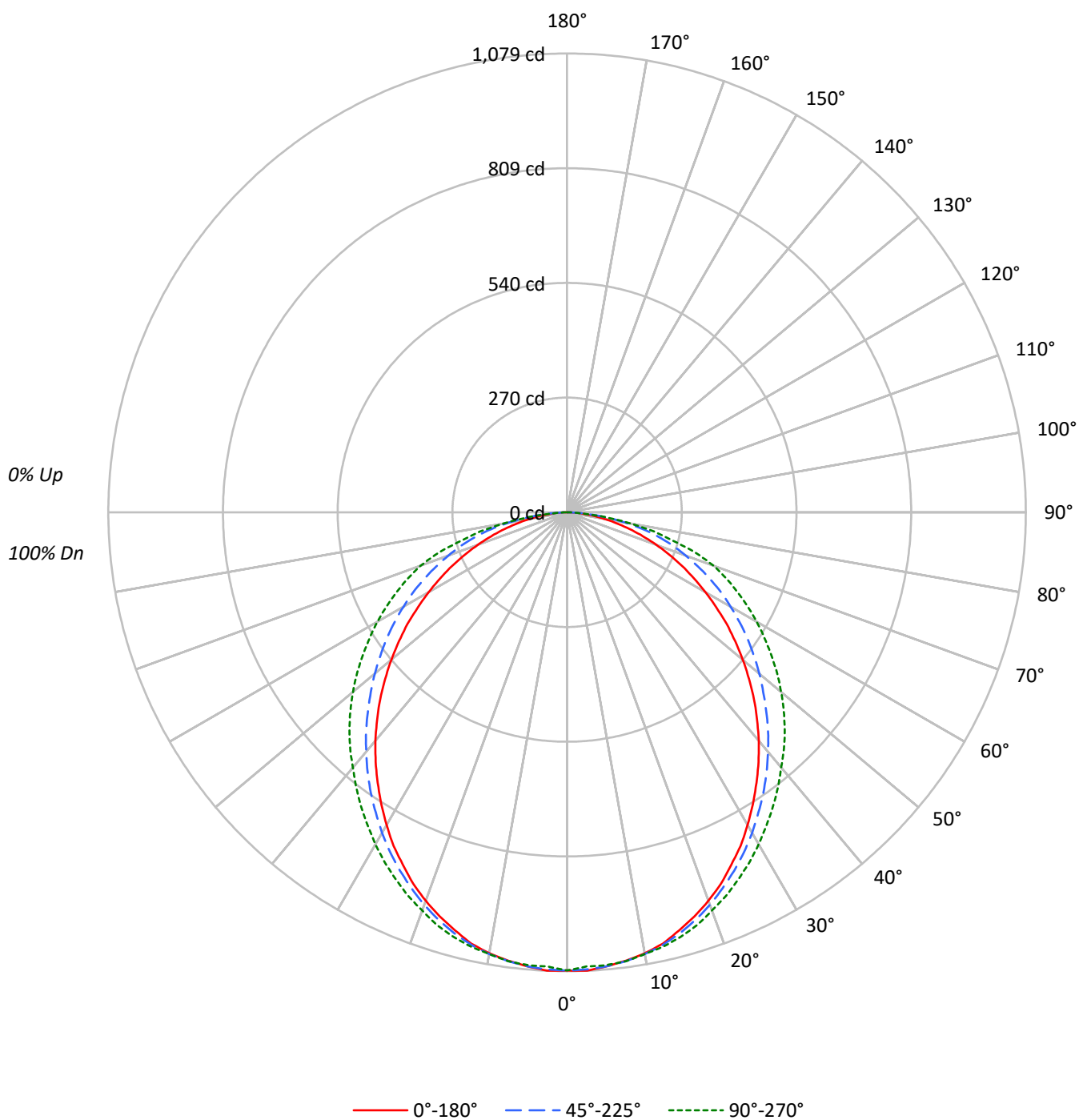
Input Watts (W): 29.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	109	104	99	95	106	101	97	94		97	94	91			93	91	88			90
2	99	90	83	77	96	88	82	77		85	79	75			81	77	73			78
3	90	79	71	64	87	78	70	64		75	68	63			72	66	62			69
4	82	70	61	54	80	69	61	54		66	59	53			64	58	53			62
5	76	63	54	47	74	62	53	47		59	52	46			57	51	46			56
6	70	56	47	41	68	56	47	41		54	46	40			52	45	40			50
7	65	51	42	36	63	50	42	36		49	41	36			47	41	36			46
8	60	47	38	32	59	46	38	32		45	37	32			43	37	32			42
9	56	43	35	29	55	42	34	29		41	34	29			40	34	29			39
10	53	40	32	26	52	39	32	26		38	31	26			37	31	26			36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2899	2899	2899
5°	2895	2895	2887
10°	2878	2882	2882
15°	2835	2855	2879
20°	2784	2813	2853
25°	2714	2760	2828
30°	2637	2703	2801
35°	2551	2644	2774
40°	2463	2583	2752
45°	2366	2522	2755
50°	2258	2472	2751
55°	2151	2431	2750
60°	2024	2391	2773
65°	1898	2358	2811
70°	1753	2334	2881
75°	1579	2316	2671
80°	1385	2156	2331
85°	1139	1621	1445



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.7	3.4
10°-20°	289.0	9.8
20°-30°	429.2	14.5
30°-40°	505.2	17.1
40°-50°	515.1	17.4
50°-60°	464.6	15.7
60°-70°	365.9	12.4
70°-80°	225.7	7.6
80°-90°	58.6	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°	819.9	27.7
0°-40°	1325.2	44.8
0°-60°	2304.8	78.0
0°-90°	2955.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2955.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1077	1077	1077	1077	1077	
5°	1072	1073	1072	1070	1069	102
15°	1018	1022	1025	1030	1033	287
25°	914	920	930	945	952	421
35°	776	785	805	830	844	486
45°	622	632	663	703	724	479
55°	458	474	518	565	586	409
65°	298	319	370	417	441	295
75°	152	177	223	248	257	162
85°	37	47	52	50	47	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1077.3	1077.3	1077.3	1077.3	1077.3
2.5°	1078.7	1078.7	1075.9	1073.0	1068.8
5°	1071.6	1073.0	1071.6	1070.2	1068.8
7.5°	1063.1	1064.5	1064.5	1064.5	1064.5
10°	1053.1	1054.6	1054.6	1054.6	1054.6
12.5°	1039.0	1040.4	1041.8	1043.2	1046.0
15°	1017.7	1021.9	1024.8	1030.4	1033.3
17.5°	996.4	1000.6	1004.9	1012.0	1017.7
20°	972.2	975.1	982.2	990.7	996.4
22.5°	945.3	949.5	956.6	968.0	976.5
25°	914.0	919.7	929.7	945.3	952.4
27.5°	884.2	888.5	901.3	918.3	928.2
30°	848.8	854.4	870.0	891.3	901.3
32.5°	813.3	820.4	837.4	861.5	872.9
35°	776.4	784.9	804.8	830.3	844.5
37.5°	739.5	748.0	770.7	799.1	814.7
40°	701.1	709.7	735.2	766.4	783.5
42.5°	661.4	671.3	699.7	735.2	755.1
45°	621.7	631.6	662.8	702.6	723.9
47.5°	580.5	591.9	625.9	669.9	691.2
50°	539.3	552.1	590.4	635.9	657.2
52.5°	498.2	512.4	553.5	600.4	623.1
55°	458.4	474.1	518.1	564.9	586.2
57.5°	415.9	434.3	481.2	526.6	550.7
60°	376.1	396.0	444.3	489.7	515.2
62.5°	336.4	357.7	408.8	454.2	478.3
65°	298.1	319.3	370.4	417.3	441.4
67.5°	259.7	283.9	333.5	380.4	404.5
70°	222.8	248.4	296.6	342.1	366.2
72.5°	187.4	212.9	261.2	303.7	317.9
75°	151.9	177.4	222.8	248.4	256.9
77.5°	119.2	143.4	183.1	198.7	210.1
80°	89.4	110.7	139.1	149.0	150.4
82.5°	61.0	79.5	96.5	97.9	96.5
85°	36.9	46.8	52.5	49.7	46.8
87.5°	17.0	18.5	17.0	11.4	7.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)