

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: P230546

Luminaire Tested: **22CZ-LD5-34-UNV-L940-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230546
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-LD5-34-UNV-L940-CD1-U
Description: CRUZE 2x2 LED TROFFER
WITH RIBBED LENS
Light Source: (84) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3085.0 lumens
Efficiency: N/A
Efficacy: 104.9 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.26 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

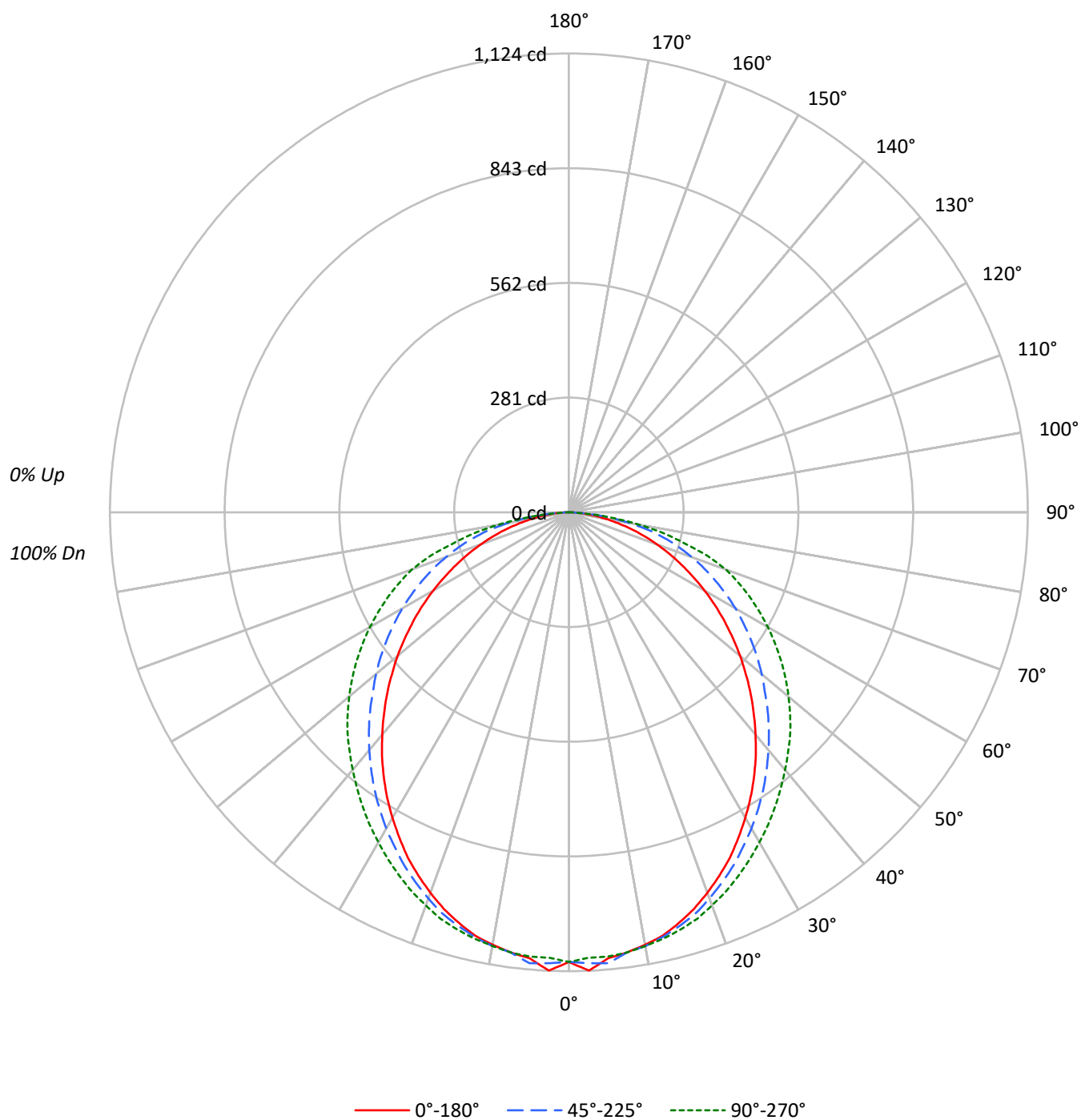
Input Watts (W): 29.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				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	108	104	99	95	106	101	97	94	97	94	91		93	90	88		83
2	98	90	83	77	96	88	82	76	84	79	74		81	77	73		69
3	90	79	70	64	87	77	69	63	74	68	62		71	66	61		58
4	82	70	61	54	80	68	60	54	66	59	53		64	57	52		49
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		43
6	70	56	47	41	68	55	47	40	53	46	40		52	45	40		37
7	65	51	42	36	63	50	42	36	48	41	35		47	40	35		33
8	60	46	38	32	58	46	38	32	44	37	32		43	36	31		29
9	56	43	34	29	55	42	34	29	41	34	29		40	33	28		26
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2963	2963	2963
5°	2962	2995	2950
10°	2939	2947	2947
15°	2900	2921	2946
20°	2840	2883	2934
25°	2771	2833	2918
30°	2685	2778	2899
35°	2597	2725	2893
40°	2498	2672	2893
45°	2398	2621	2917
50°	2292	2581	2939
55°	2182	2555	2977
60°	2067	2535	3028
65°	1939	2522	3105
70°	1806	2514	3211
75°	1638	2511	3041
80°	1418	2325	2696
85°	1204	1760	1714



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.4	3.4
10°-20°	295.8	9.6
20°-30°	440.1	14.3
30°-40°	520.5	16.9
40°-50°	535.0	17.3
50°-60°	488.9	15.8
60°-70°	391.1	12.7
70°-80°	245.4	8.0
80°-90°	63.9	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°	840.3	27.2
0°-40°	1360.8	44.1
0°-60°	2384.6	77.3
0°-90°	3085.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3085.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1101	1101	1101	1101	1101	
5°	1097	1097	1109	1101	1092	104
15°	1041	1043	1049	1055	1058	293
25°	933	939	954	971	983	429
35°	791	801	830	861	881	494
45°	630	647	689	740	767	486
55°	465	488	545	605	635	416
65°	304	332	396	456	488	302
75°	158	188	242	278	292	167
85°	39	50	57	56	56	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1101.1	1101.1	1101.1	1101.1	1101.1
2.5°	1123.6	1119.1	1105.6	1096.6	1092.1
5°	1096.6	1096.6	1108.6	1101.1	1092.1
7.5°	1087.6	1087.6	1087.6	1110.1	1087.6
10°	1075.6	1077.1	1078.6	1087.6	1078.6
12.5°	1062.1	1062.1	1065.1	1068.1	1069.6
15°	1041.1	1042.6	1048.6	1054.6	1057.6
17.5°	1018.6	1023.1	1030.6	1038.1	1044.1
20°	991.6	997.6	1006.6	1018.6	1024.6
22.5°	963.1	969.1	981.1	994.6	1005.1
25°	933.1	939.1	954.1	970.6	982.6
27.5°	898.6	906.1	924.1	946.6	958.6
30°	864.1	873.1	894.1	919.6	933.1
32.5°	828.1	838.6	862.6	891.1	907.6
35°	790.6	801.1	829.6	861.1	880.6
37.5°	751.6	763.6	795.1	831.1	852.1
40°	711.1	724.6	760.6	799.6	823.6
42.5°	670.6	685.6	724.6	771.1	795.1
45°	630.1	646.6	688.6	739.6	766.6
47.5°	588.1	607.6	651.1	708.1	735.1
50°	547.6	567.1	616.6	675.1	702.1
52.5°	505.6	528.1	580.6	640.6	669.1
55°	465.1	487.6	544.6	604.6	634.6
57.5°	424.6	447.1	507.1	568.6	598.6
60°	384.0	408.1	471.1	531.1	562.6
62.5°	343.5	369.0	433.6	495.1	525.1
65°	304.5	331.5	396.1	456.1	487.6
67.5°	267.0	295.5	358.5	417.1	448.6
70°	229.5	258.0	319.5	376.5	408.1
72.5°	193.5	222.0	282.0	333.0	357.0
75°	157.5	187.5	241.5	277.5	292.5
77.5°	123.0	153.0	199.5	223.5	240.0
80°	91.5	117.0	150.0	168.0	174.0
82.5°	63.0	84.0	105.0	109.5	112.5
85°	39.0	49.5	57.0	55.5	55.5
87.5°	18.0	19.5	16.5	12.0	7.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)