

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: P259359

Luminaire Tested: **22CZ-LD5-39-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259359
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-LD5-39-UNV-L92765-W2A1-U-3000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3209.0 lumens
Efficiency: N/A
Efficacy: 107.5 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

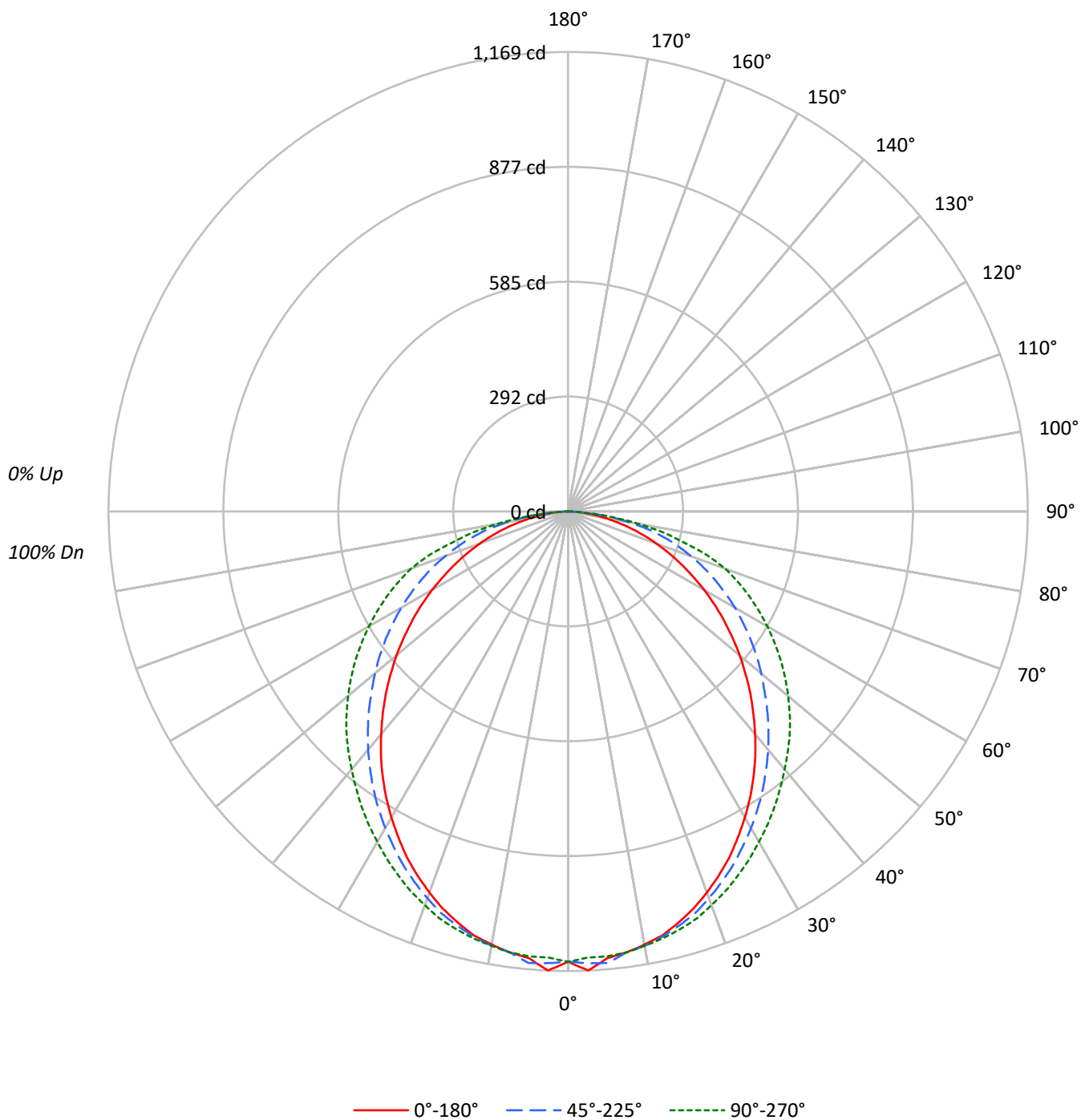
Input Watts (W): 29.853
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3082	3082	3082
5°	3081	3115	3069
10°	3057	3066	3066
15°	3017	3039	3065
20°	2954	2999	3052
25°	2882	2947	3035
30°	2793	2890	3016
35°	2702	2835	3009
40°	2598	2779	3009
45°	2494	2726	3035
50°	2385	2685	3057
55°	2270	2658	3097
60°	2150	2637	3150
65°	2017	2623	3230
70°	1879	2615	3340
75°	1704	2612	3164
80°	1475	2417	2805
85°	1254	1831	1782



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.6	3.4
10°-20°	307.7	9.6
20°-30°	457.8	14.3
30°-40°	541.4	16.9
40°-50°	556.5	17.3
50°-60°	508.5	15.8
60°-70°	406.8	12.7
70°-80°	255.3	8.0
80°-90°	66.5	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°	874.1	27.2
0°-40°	1415.5	44.1
0°-60°	2480.5	77.3
0°-90°	3209.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3209.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1145	1145	1145	1145	1145	
5°	1141	1141	1153	1145	1136	108
15°	1083	1084	1091	1097	1100	305
25°	971	977	992	1010	1022	446
35°	822	833	863	896	916	514
45°	655	673	716	769	797	505
55°	484	507	566	629	660	433
65°	317	345	412	474	507	314
75°	164	195	251	289	304	174
85°	41	52	59	58	58	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1145.4	1145.4	1145.4	1145.4	1145.4
2.5°	1168.8	1164.1	1150.1	1140.7	1136.0
5°	1140.7	1140.7	1153.2	1145.4	1136.0
7.5°	1131.4	1131.4	1131.4	1154.8	1131.4
10°	1118.9	1120.4	1122.0	1131.4	1122.0
12.5°	1104.8	1104.8	1107.9	1111.1	1112.6
15°	1083.0	1084.5	1090.8	1097.0	1100.1
17.5°	1059.6	1064.3	1072.1	1079.9	1086.1
20°	1031.5	1037.7	1047.1	1059.6	1065.8
22.5°	1001.8	1008.1	1020.6	1034.6	1045.5
25°	970.6	976.9	992.5	1009.6	1022.1
27.5°	934.7	942.5	961.3	984.7	997.2
30°	898.8	908.2	930.1	956.6	970.6
32.5°	861.4	872.3	897.3	926.9	944.1
35°	822.4	833.3	863.0	895.7	916.0
37.5°	781.8	794.3	827.1	864.5	886.4
40°	739.7	753.7	791.2	831.7	856.7
42.5°	697.5	713.1	753.7	802.1	827.1
45°	655.4	672.6	716.3	769.3	797.4
47.5°	611.7	632.0	677.3	736.6	764.6
50°	569.6	589.9	641.4	702.2	730.3
52.5°	525.9	549.3	603.9	666.3	696.0
55°	483.8	507.2	566.5	628.9	660.1
57.5°	441.6	465.0	527.4	591.4	622.6
60°	399.5	424.5	490.0	552.4	585.2
62.5°	357.4	383.9	451.0	515.0	546.2
65°	316.8	344.9	412.0	474.4	507.2
67.5°	277.8	307.4	373.0	433.8	466.6
70°	238.8	268.4	332.4	391.7	424.5
72.5°	201.3	231.0	293.4	346.4	371.4
75°	163.9	195.1	251.2	288.7	304.3
77.5°	128.0	159.2	207.5	232.5	249.7
80°	95.2	121.7	156.0	174.8	181.0
82.5°	65.5	87.4	109.2	113.9	117.0
85°	40.6	51.5	59.3	57.7	57.7
87.5°	18.7	20.3	17.2	12.5	7.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)