

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: P259358

Luminaire Tested: **22CZ-LD5-39-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259358
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-2700K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3086.0 lumens
Efficiency: N/A
Efficacy: 102.7 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

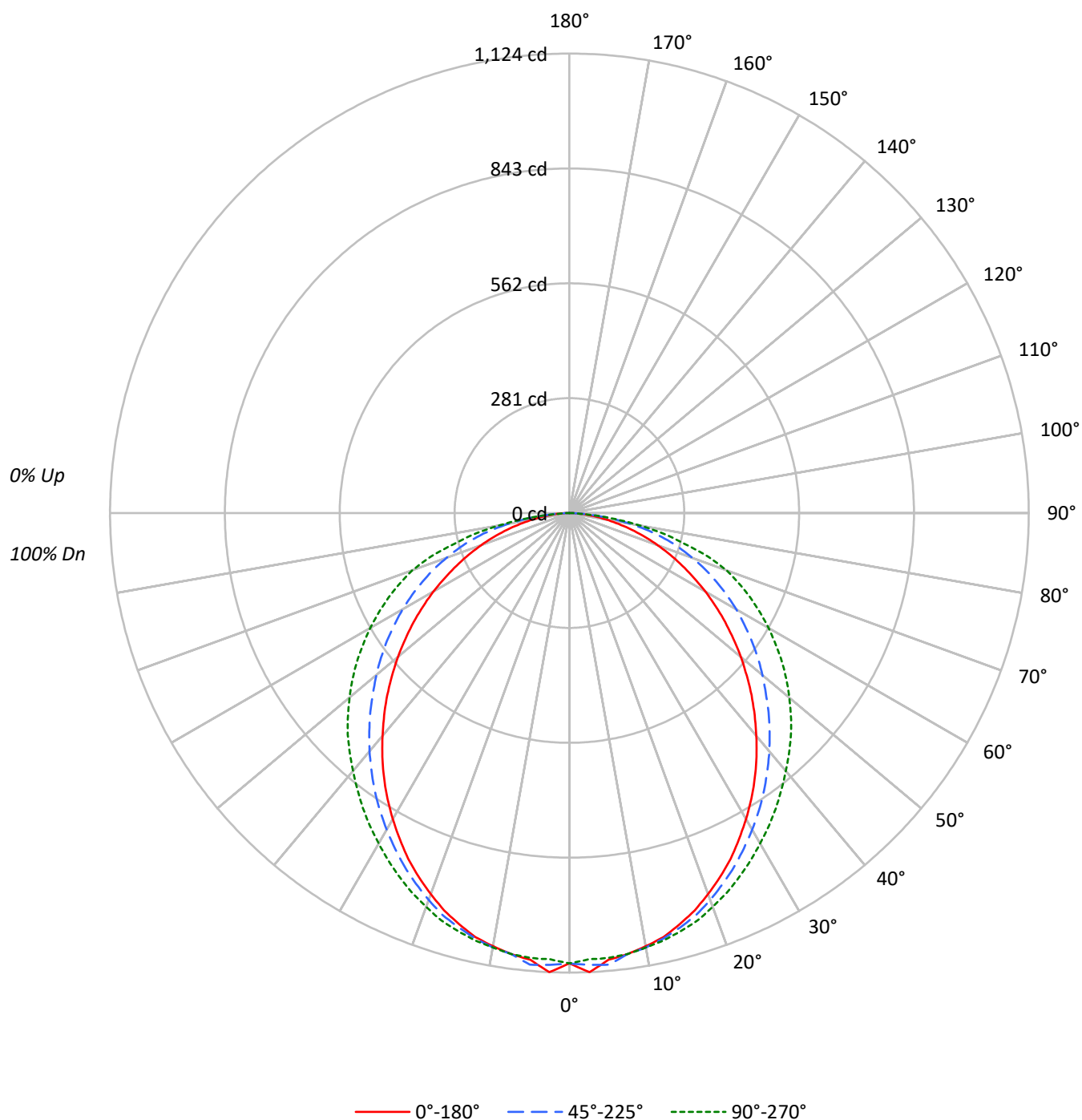
Input Watts (W): 30.039
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	108	104	99	95	106	101	97	94		97	94	91		93	90	88		89	87	85
2	98	90	83	77	96	88	82	76		84	79	74		81	77	73		78	74	71
3	90	79	70	64	87	77	69	63		74	68	62		71	66	61		69	64	60
4	82	70	61	54	80	68	60	54		66	59	53		64	57	52		61	56	51
5	75	62	53	46	73	61	53	46		59	51	46		57	50	45		55	49	45
6	70	56	47	41	68	55	47	40		53	46	40		52	45	40		50	44	39
7	65	51	42	36	63	50	42	36		48	41	35		47	40	35		46	40	35
8	60	46	38	32	58	46	38	32		44	37	32		43	36	31		42	36	31
9	56	43	34	29	55	42	34	29		41	34	29		40	33	28		39	33	28
10	53	39	31	26	51	39	31	26		38	31	26		37	30	26		36	30	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2964	2964	2964
5°	2963	2996	2951
10°	2940	2948	2948
15°	2902	2922	2947
20°	2840	2884	2935
25°	2771	2834	2918
30°	2686	2779	2900
35°	2598	2726	2894
40°	2499	2673	2894
45°	2399	2621	2918
50°	2293	2582	2940
55°	2183	2556	2978
60°	2068	2536	3029
65°	1940	2523	3105
70°	1806	2515	3212
75°	1639	2512	3042
80°	1418	2326	2698
85°	1204	1760	1714



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.5	3.4
10°-20°	295.9	9.6
20°-30°	440.2	14.3
30°-40°	520.7	16.9
40°-50°	535.1	17.3
50°-60°	489.0	15.8
60°-70°	391.2	12.7
70°-80°	245.5	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°	840.6	27.2
0°-40°	1361.3	44.1
0°-60°	2385.4	77.3
0°-90°	3086.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3086.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1102	1102	1102	1102	1102	
5°	1097	1097	1109	1102	1092	104
15°	1042	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°	305	332	396	456	488	302
75°	158	188	242	278	293	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°	1101.5	1101.5	1101.5	1101.5	1101.5
2.5°	1124.0	1119.5	1106.0	1097.0	1092.5
5°	1097.0	1097.0	1109.0	1101.5	1092.5
7.5°	1088.0	1088.0	1088.0	1110.5	1088.0
10°	1076.0	1077.5	1079.0	1088.0	1079.0
12.5°	1062.5	1062.5	1065.5	1068.5	1070.0
15°	1041.5	1043.0	1049.0	1055.0	1058.0
17.5°	1019.0	1023.5	1031.0	1038.5	1044.5
20°	991.9	998.0	1007.0	1019.0	1025.0
22.5°	963.4	969.4	981.4	994.9	1005.5
25°	933.4	939.4	954.4	970.9	982.9
27.5°	898.9	906.4	924.4	946.9	958.9
30°	864.4	873.4	894.4	919.9	933.4
32.5°	828.4	838.9	862.9	891.4	907.9
35°	790.9	801.4	829.9	861.4	880.9
37.5°	751.8	763.8	795.4	831.4	852.4
40°	711.3	724.8	760.8	799.9	823.9
42.5°	670.8	685.8	724.8	771.3	795.4
45°	630.3	646.8	688.8	739.8	766.8
47.5°	588.3	607.8	651.3	708.3	735.3
50°	547.7	567.3	616.8	675.3	702.3
52.5°	505.7	528.2	580.8	640.8	669.3
55°	465.2	487.7	544.7	604.8	634.8
57.5°	424.7	447.2	507.2	568.8	598.8
60°	384.2	408.2	471.2	531.2	562.8
62.5°	343.7	369.2	433.7	495.2	525.2
65°	304.6	331.6	396.2	456.2	487.7
67.5°	267.1	295.6	358.7	417.2	448.7
70°	229.6	258.1	319.6	376.7	408.2
72.5°	193.6	222.1	282.1	333.2	357.2
75°	157.6	187.6	241.6	277.6	292.6
77.5°	123.1	153.1	199.6	223.6	240.1
80°	91.5	117.1	150.1	168.1	174.1
82.5°	63.0	84.0	105.0	109.5	112.6
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)