

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: P259365

Luminaire Tested: **22CZ-LD5-39-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259365
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-5700K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3712.0 lumens
Efficiency: N/A
Efficacy: 119.5 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

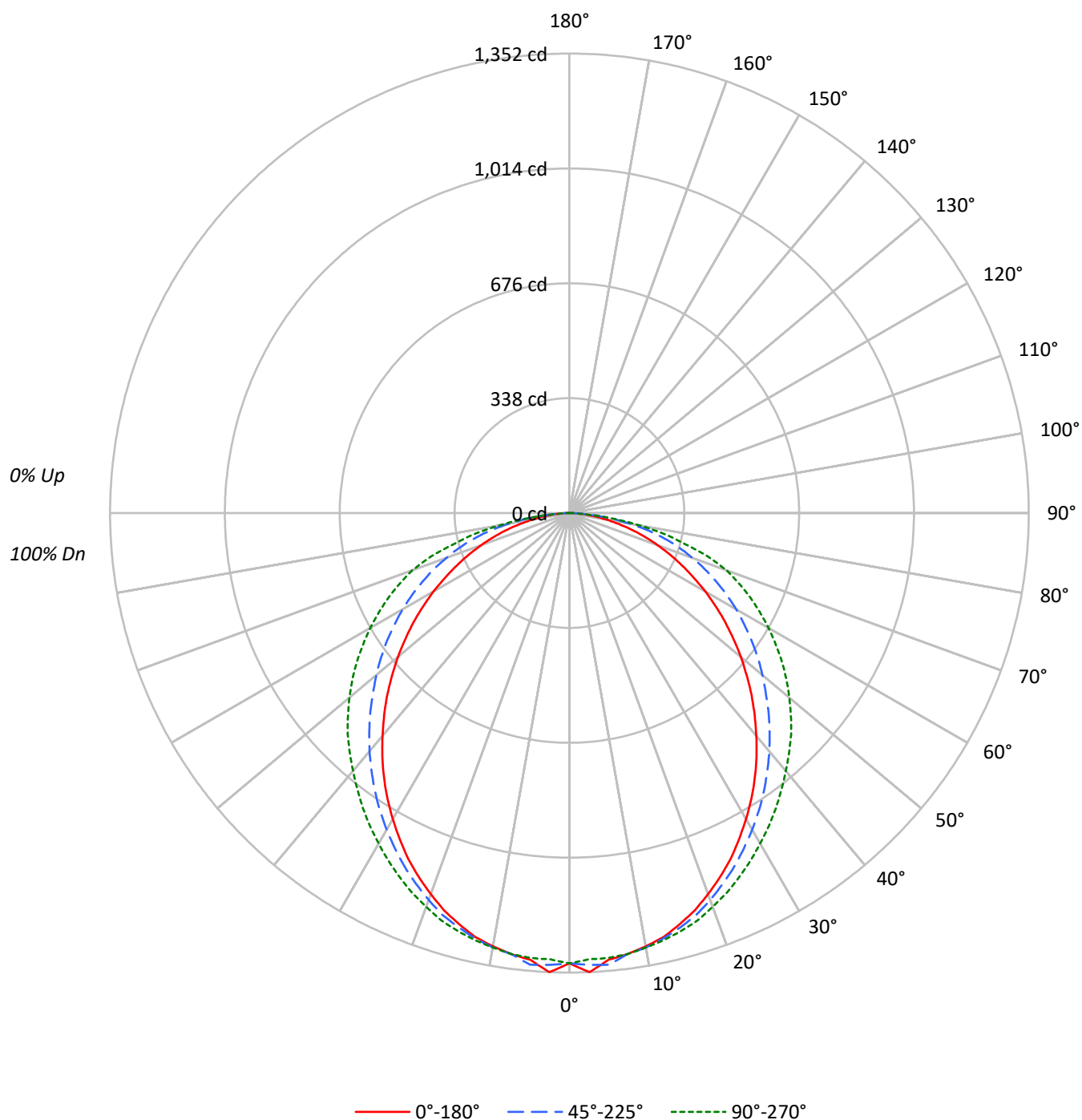
Input Watts (W): 31.062
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3565	3565	3565
5°	3564	3603	3550
10°	3537	3547	3547
15°	3490	3515	3545
20°	3417	3468	3531
25°	3334	3409	3510
30°	3231	3343	3489
35°	3125	3279	3481
40°	3006	3215	3481
45°	2885	3153	3510
50°	2758	3106	3537
55°	2625	3074	3582
60°	2487	3050	3643
65°	2333	3034	3736
70°	2173	3025	3863
75°	1970	3021	3660
80°	1706	2797	3245
85°	1448	2118	2062



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.7	3.4
10°-20°	356.0	9.6
20°-30°	529.5	14.3
30°-40°	626.3	16.9
40°-50°	643.7	17.3
50°-60°	588.2	15.8
60°-70°	470.5	12.7
70°-80°	295.3	8.0
80°-90°	76.9	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°	1011.1	27.2
0°-40°	1637.4	44.1
0°-60°	2869.3	77.3
0°-90°	3712.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3712.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1325	1325	1325	1325	1325	
5°	1320	1320	1334	1325	1314	125
15°	1253	1254	1262	1269	1273	353
25°	1123	1130	1148	1168	1182	516
35°	951	964	998	1036	1060	594
45°	758	778	828	890	922	585
55°	560	587	655	728	764	501
65°	366	399	476	549	587	364
75°	190	226	291	334	352	201
85°	47	60	69	67	67	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1324.9	1324.9	1324.9	1324.9	1324.9
2.5°	1352.0	1346.6	1330.4	1319.5	1314.1
5°	1319.5	1319.5	1334.0	1324.9	1314.1
7.5°	1308.7	1308.7	1308.7	1335.8	1308.7
10°	1294.3	1296.1	1297.9	1308.7	1297.9
12.5°	1278.0	1278.0	1281.6	1285.2	1287.0
15°	1252.7	1254.5	1261.8	1269.0	1272.6
17.5°	1225.7	1231.1	1240.1	1249.1	1256.3
20°	1193.2	1200.4	1211.2	1225.7	1232.9
22.5°	1158.9	1166.1	1180.5	1196.8	1209.4
25°	1122.8	1130.0	1148.0	1167.9	1182.3
27.5°	1081.3	1090.3	1111.9	1139.0	1153.5
30°	1039.7	1050.6	1075.8	1106.5	1122.8
32.5°	996.4	1009.0	1037.9	1072.2	1092.1
35°	951.3	963.9	998.2	1036.1	1059.6
37.5°	904.4	918.8	956.7	1000.0	1025.3
40°	855.6	871.9	915.2	962.1	991.0
42.5°	806.9	824.9	871.9	927.8	956.7
45°	758.1	778.0	828.5	889.9	922.4
47.5°	707.6	731.1	783.4	852.0	884.5
50°	658.9	682.3	741.9	812.3	844.8
52.5°	608.3	635.4	698.6	770.8	805.1
55°	559.6	586.7	655.2	727.5	763.6
57.5°	510.8	537.9	610.1	684.1	720.2
60°	462.1	491.0	566.8	639.0	676.9
62.5°	413.4	444.1	521.7	595.7	631.8
65°	366.4	398.9	476.5	548.7	586.7
67.5°	321.3	355.6	431.4	501.8	539.7
70°	276.2	310.5	384.5	453.1	491.0
72.5°	232.9	267.2	339.4	400.7	429.6
75°	189.5	225.6	290.6	333.9	352.0
77.5°	148.0	184.1	240.1	269.0	288.8
80°	110.1	140.8	180.5	202.2	209.4
82.5°	75.8	101.1	126.4	131.8	135.4
85°	46.9	59.6	68.6	66.8	66.8
87.5°	21.7	23.5	19.9	14.4	9.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)