

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: P259364

Luminaire Tested: **22CZ-LD5-39-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259364
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-5500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3696.0 lumens
Efficiency: N/A
Efficacy: 119.3 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

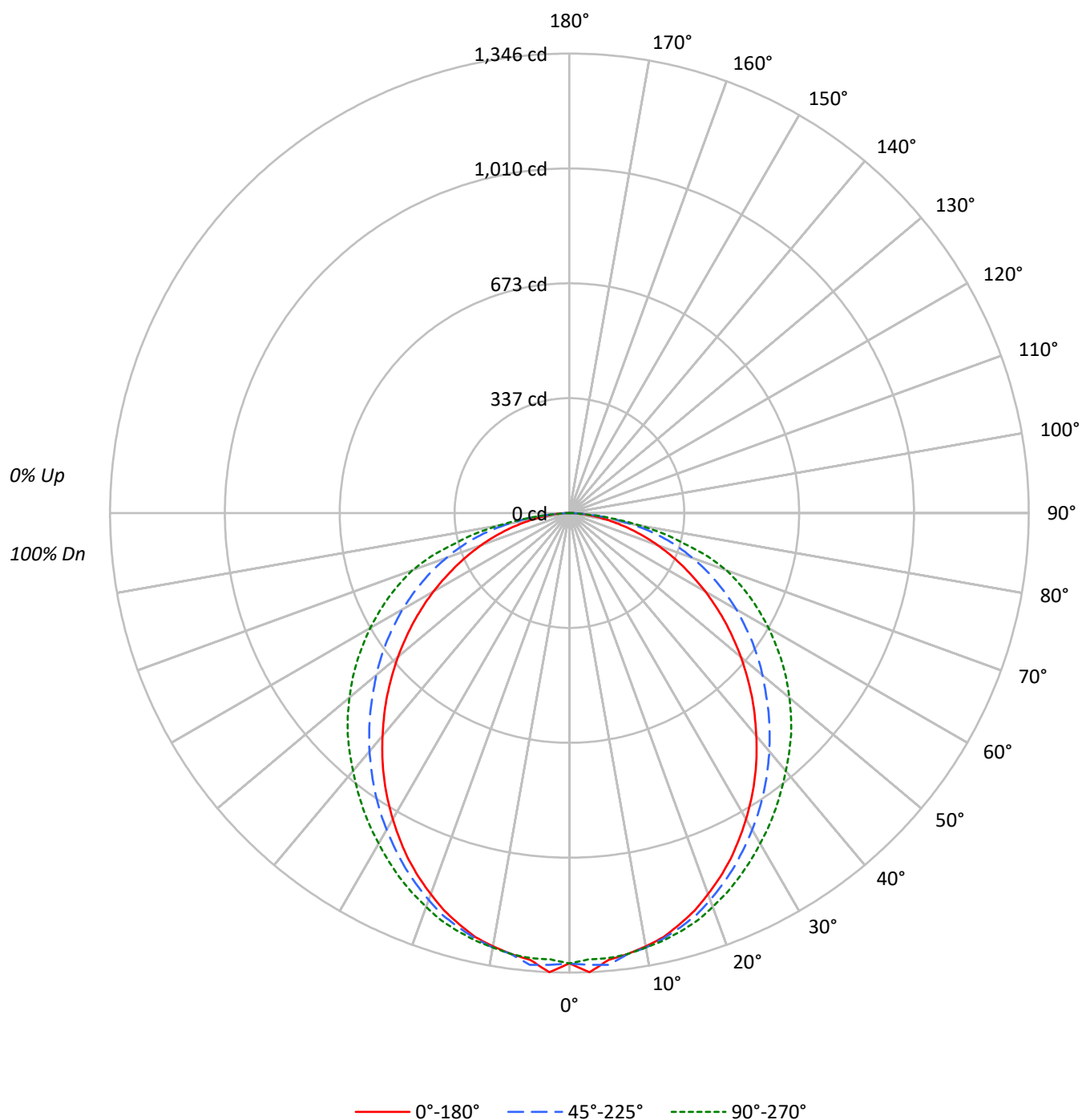
Input Watts (W): 30.969
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3550	3550	3550
5°	3549	3588	3534
10°	3521	3531	3531
15°	3475	3500	3530
20°	3402	3454	3515
25°	3319	3394	3495
30°	3217	3329	3474
35°	3112	3265	3466
40°	2993	3201	3466
45°	2873	3140	3495
50°	2746	3093	3521
55°	2614	3061	3567
60°	2476	3038	3627
65°	2323	3021	3719
70°	2164	3012	3847
75°	1962	3009	3644
80°	1698	2785	3231
85°	1442	2109	2053



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.1	3.4
10°-20°	354.4	9.6
20°-30°	527.2	14.3
30°-40°	623.6	16.9
40°-50°	640.9	17.3
50°-60°	585.7	15.8
60°-70°	468.5	12.7
70°-80°	294.0	8.0
80°-90°	76.6	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°	1006.8	27.2
0°-40°	1630.4	44.1
0°-60°	2856.9	77.3
0°-90°	3696.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3696.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1319	1319	1319	1319	1319	
5°	1314	1314	1328	1319	1308	125
15°	1247	1249	1256	1264	1267	351
25°	1118	1125	1143	1163	1177	514
35°	947	960	994	1032	1055	592
45°	755	775	825	886	918	582
55°	557	584	652	724	760	498
65°	365	397	474	546	584	362
75°	189	225	289	332	350	200
85°	47	59	68	66	66	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1319.2	1319.2	1319.2	1319.2	1319.2
2.5°	1346.2	1340.8	1324.6	1313.8	1308.4
5°	1313.8	1313.8	1328.2	1319.2	1308.4
7.5°	1303.1	1303.1	1303.1	1330.0	1303.1
10°	1288.7	1290.5	1292.3	1303.1	1292.3
12.5°	1272.5	1272.5	1276.1	1279.7	1281.5
15°	1247.3	1249.1	1256.3	1263.5	1267.1
17.5°	1220.4	1225.8	1234.8	1243.7	1250.9
20°	1188.0	1195.2	1206.0	1220.4	1227.6
22.5°	1153.9	1161.1	1175.4	1191.6	1204.2
25°	1117.9	1125.1	1143.1	1162.9	1177.2
27.5°	1076.6	1085.6	1107.1	1134.1	1148.5
30°	1035.3	1046.0	1071.2	1101.8	1117.9
32.5°	992.1	1004.7	1033.5	1067.6	1087.4
35°	947.2	959.8	993.9	1031.7	1055.0
37.5°	900.5	914.8	952.6	995.7	1020.9
40°	851.9	868.1	911.2	958.0	986.7
42.5°	803.4	821.4	868.1	923.8	952.6
45°	754.9	774.6	825.0	886.1	918.4
47.5°	704.5	727.9	780.0	848.3	880.7
50°	656.0	679.4	738.7	808.8	841.1
52.5°	605.7	632.7	695.6	767.5	801.6
55°	557.2	584.1	652.4	724.3	760.3
57.5°	508.6	535.6	607.5	681.2	717.1
60°	460.1	488.9	564.4	636.2	674.0
62.5°	411.6	442.1	519.4	593.1	629.1
65°	364.9	397.2	474.5	546.4	584.1
67.5°	319.9	354.1	429.6	499.7	537.4
70°	275.0	309.1	382.8	451.1	488.9
72.5°	231.9	266.0	337.9	399.0	427.8
75°	188.7	224.7	289.4	332.5	350.5
77.5°	147.4	183.3	239.0	267.8	287.6
80°	109.6	140.2	179.7	201.3	208.5
82.5°	75.5	100.6	125.8	131.2	134.8
85°	46.7	59.3	68.3	66.5	66.5
87.5°	21.6	23.4	19.8	14.4	9.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)