

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: P259369

Luminaire Tested: **22CZ-LD5-44-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259369
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-LD5-44-UNV-L92765-W2A1-U-3500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3780.0 lumens
Efficiency: N/A
Efficacy: 109.0 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

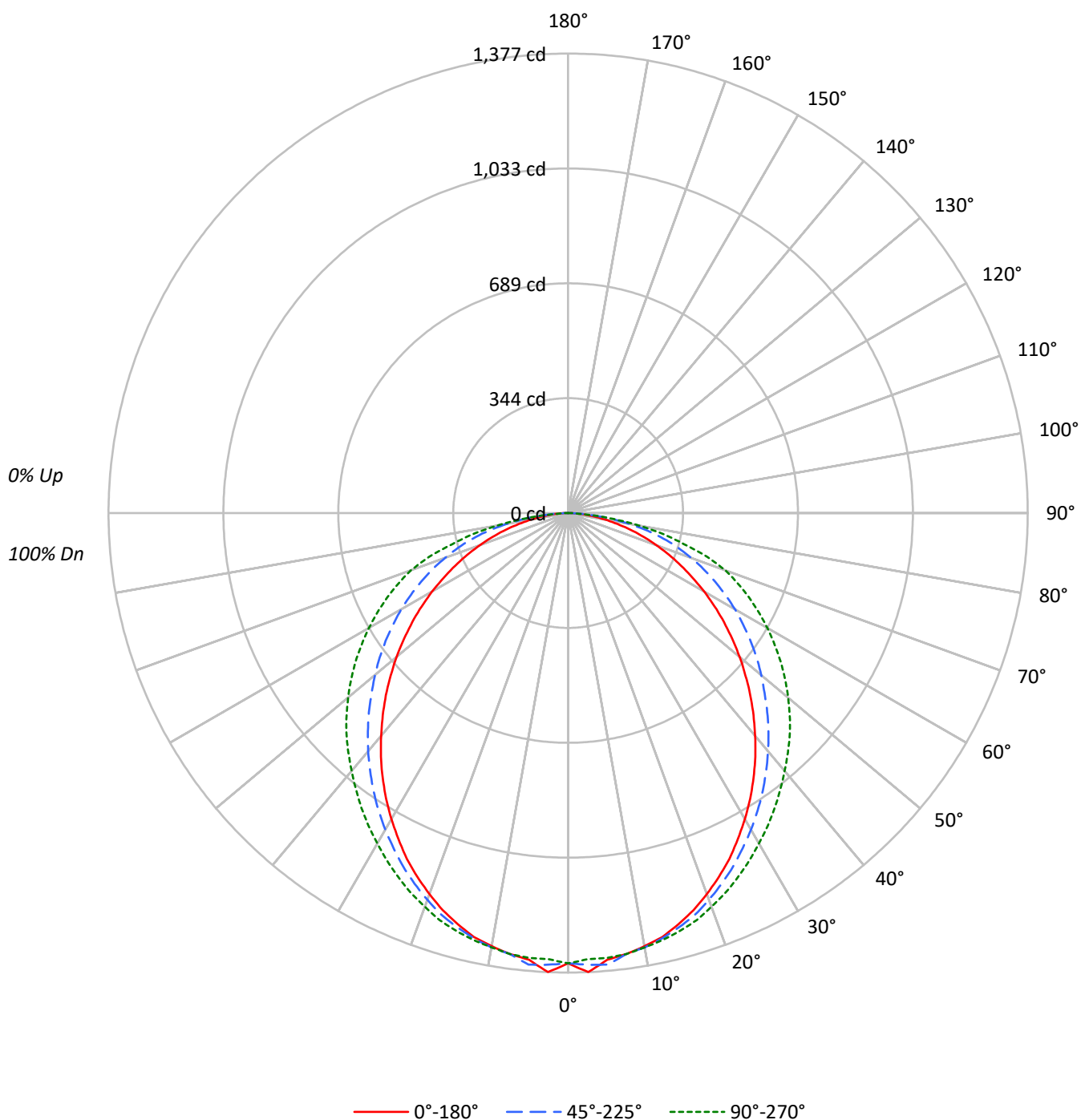
Input Watts (W): 34.689
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3631	3631	3631
5°	3630	3669	3615
10°	3601	3611	3611
15°	3554	3580	3610
20°	3479	3532	3595
25°	3395	3471	3575
30°	3290	3404	3553
35°	3182	3339	3545
40°	3061	3274	3545
45°	2938	3211	3575
50°	2809	3163	3602
55°	2673	3131	3648
60°	2533	3106	3710
65°	2376	3090	3804
70°	2212	3080	3934
75°	2007	3077	3726
80°	1737	2848	3304
85°	1476	2158	2100



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.0	3.4
10°-20°	362.5	9.6
20°-30°	539.2	14.3
30°-40°	637.7	16.9
40°-50°	655.5	17.3
50°-60°	599.0	15.8
60°-70°	479.1	12.7
70°-80°	300.7	8.0
80°-90°	78.3	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°	1029.7	27.2
0°-40°	1667.4	44.1
0°-60°	2921.8	77.3
0°-90°	3780.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3780.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1349	1349	1349	1349	1349	
5°	1344	1344	1358	1349	1338	128
15°	1276	1278	1285	1292	1296	359
25°	1143	1151	1169	1189	1204	526
35°	969	982	1016	1055	1079	605
45°	772	792	844	906	939	595
55°	570	597	667	741	778	510
65°	373	406	485	559	597	370
75°	193	230	296	340	358	205
85°	48	61	70	68	68	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1349.2	1349.2	1349.2	1349.2	1349.2
2.5°	1376.8	1371.3	1354.7	1343.7	1338.2
5°	1343.7	1343.7	1358.4	1349.2	1338.2
7.5°	1332.7	1332.7	1332.7	1360.2	1332.7
10°	1318.0	1319.8	1321.6	1332.7	1321.6
12.5°	1301.4	1301.4	1305.1	1308.8	1310.6
15°	1275.7	1277.5	1284.9	1292.2	1295.9
17.5°	1248.1	1253.6	1262.8	1272.0	1279.4
20°	1215.0	1222.4	1233.4	1248.1	1255.5
22.5°	1180.1	1187.5	1202.2	1218.7	1231.6
25°	1143.3	1150.7	1169.1	1189.3	1204.0
27.5°	1101.1	1110.2	1132.3	1159.9	1174.6
30°	1058.8	1069.8	1095.5	1126.8	1143.3
32.5°	1014.7	1027.5	1056.9	1091.9	1112.1
35°	968.7	981.6	1016.5	1055.1	1079.0
37.5°	920.9	935.6	974.2	1018.3	1044.1
40°	871.3	887.8	931.9	979.7	1009.1
42.5°	821.7	840.0	887.8	944.8	974.2
45°	772.0	792.2	843.7	906.2	939.3
47.5°	720.6	744.5	797.8	867.6	900.7
50°	670.9	694.8	755.5	827.2	860.3
52.5°	619.5	647.0	711.4	784.9	819.8
55°	569.8	597.4	667.3	740.8	777.5
57.5°	520.2	547.8	621.3	696.7	733.4
60°	470.6	500.0	577.2	650.7	689.3
62.5°	420.9	452.2	531.2	606.6	643.4
65°	373.1	406.2	485.3	558.8	597.4
67.5°	327.2	362.1	439.3	511.0	549.6
70°	281.2	316.2	391.5	461.4	500.0
72.5°	237.1	272.0	345.6	408.1	437.5
75°	193.0	229.8	295.9	340.1	358.4
77.5°	150.7	187.5	244.5	273.9	294.1
80°	112.1	143.4	183.8	205.9	213.2
82.5°	77.2	102.9	128.7	134.2	137.9
85°	47.8	60.7	69.9	68.0	68.0
87.5°	22.1	23.9	20.2	14.7	9.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)