

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: P230572

Luminaire Tested: **22CZ-LD5-44SE-UNV-L930-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230572
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-LD5-44SE-UNV-L930-CD1-U
Description: CRUZE 2x2 LED TROFFER
WITH RIBBED LENS
Light Source: (56) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3624.0 lumens
Efficiency: N/A
Efficacy: 90.6 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

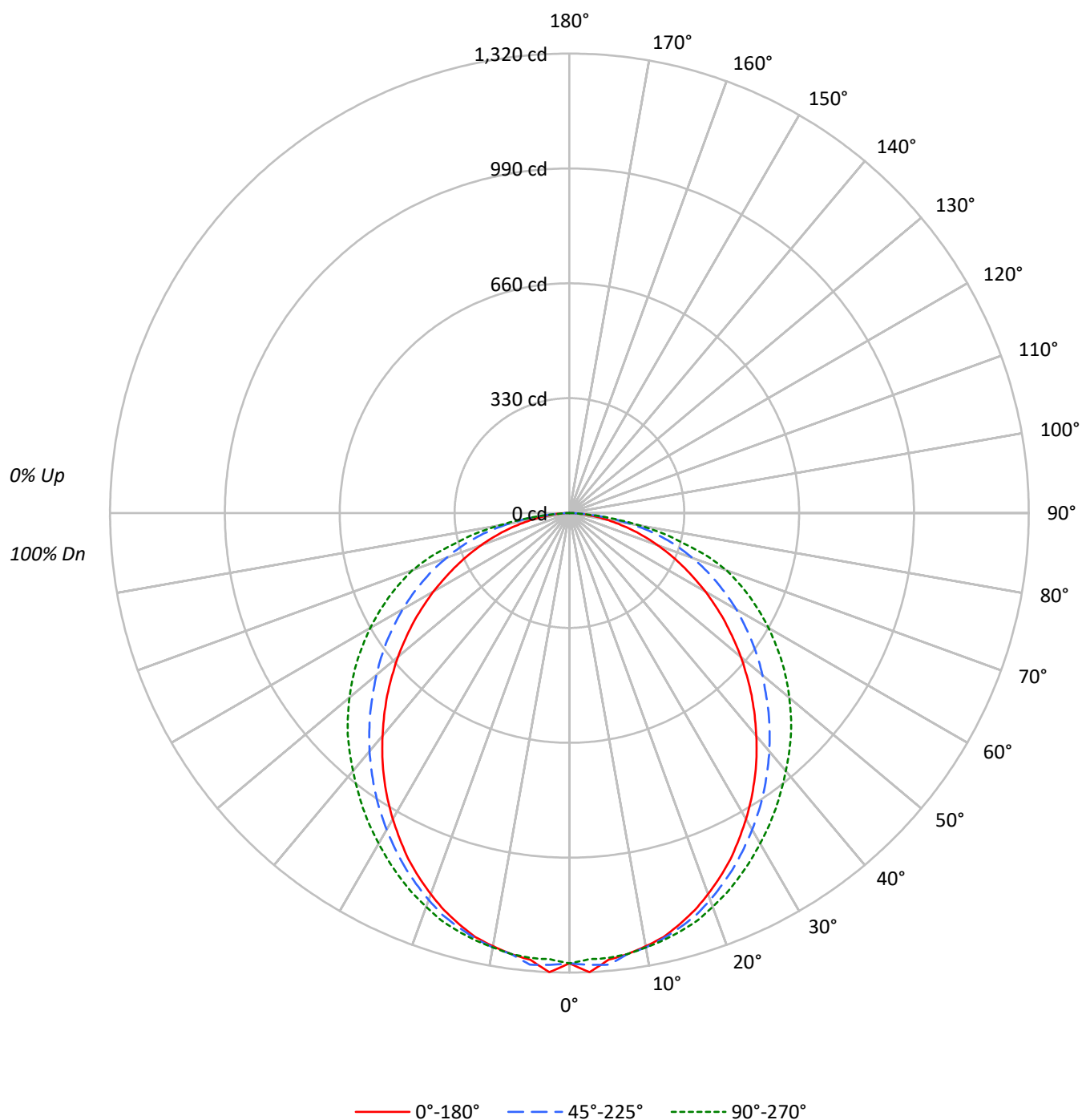
Input Watts (W): 40
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3481	3481	3481
5°	3480	3518	3466
10°	3453	3462	3462
15°	3407	3432	3461
20°	3336	3386	3447
25°	3255	3328	3427
30°	3154	3264	3406
35°	3051	3202	3398
40°	2934	3139	3399
45°	2817	3078	3427
50°	2693	3032	3453
55°	2563	3001	3498
60°	2428	2978	3557
65°	2278	2962	3647
70°	2121	2954	3771
75°	1923	2950	3572
80°	1666	2731	3168
85°	1414	2069	2013



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.7	3.4
10°-20°	347.5	9.6
20°-30°	517.0	14.3
30°-40°	611.4	16.9
40°-50°	628.4	17.3
50°-60°	574.2	15.8
60°-70°	459.4	12.7
70°-80°	288.3	8.0
80°-90°	75.1	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°	987.2	27.2
0°-40°	1598.6	44.1
0°-60°	2801.2	77.3
0°-90°	3624.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3624.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1294	1294	1294	1294	1294	
5°	1288	1288	1302	1294	1283	122
15°	1223	1225	1232	1239	1242	344
25°	1096	1103	1121	1140	1154	504
35°	929	941	975	1012	1034	580
45°	740	760	809	869	900	571
55°	546	573	640	710	746	489
65°	358	390	465	536	573	355
75°	185	220	284	326	344	196
85°	46	58	67	65	65	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1293.5	1293.5	1293.5	1293.5	1293.5
2.5°	1320.0	1314.7	1298.8	1288.2	1283.0
5°	1288.2	1288.2	1302.3	1293.5	1283.0
7.5°	1277.7	1277.7	1277.7	1304.1	1277.7
10°	1263.6	1265.3	1267.1	1277.7	1267.1
12.5°	1247.7	1247.7	1251.2	1254.8	1256.5
15°	1223.0	1224.8	1231.8	1238.9	1242.4
17.5°	1196.6	1201.9	1210.7	1219.5	1226.6
20°	1164.9	1171.9	1182.5	1196.6	1203.7
22.5°	1131.4	1138.4	1152.5	1168.4	1180.7
25°	1096.2	1103.2	1120.8	1140.2	1154.3
27.5°	1055.6	1064.4	1085.6	1112.0	1126.1
30°	1015.1	1025.7	1050.3	1080.3	1096.2
32.5°	972.8	985.1	1013.3	1046.8	1066.2
35°	928.7	941.1	974.6	1011.6	1034.5
37.5°	882.9	897.0	934.0	976.3	1001.0
40°	835.3	851.2	893.5	939.3	967.5
42.5°	787.7	805.4	851.2	905.8	934.0
45°	740.2	759.6	808.9	868.8	900.5
47.5°	690.8	713.7	764.8	831.8	863.5
50°	643.2	666.1	724.3	793.0	824.8
52.5°	593.9	620.3	682.0	752.5	786.0
55°	546.3	572.7	639.7	710.2	745.5
57.5°	498.7	525.2	595.7	667.9	703.2
60°	451.1	479.3	553.4	623.9	660.9
62.5°	403.6	433.5	509.3	581.6	616.8
65°	357.7	389.5	465.2	535.7	572.7
67.5°	313.7	347.2	421.2	489.9	526.9
70°	269.6	303.1	375.4	442.3	479.3
72.5°	227.3	260.8	331.3	391.2	419.4
75°	185.0	220.3	283.7	326.0	343.6
77.5°	144.5	179.8	234.4	262.6	282.0
80°	107.5	137.5	176.2	197.4	204.4
82.5°	74.0	98.7	123.4	128.6	132.2
85°	45.8	58.2	67.0	65.2	65.2
87.5°	21.1	22.9	19.4	14.1	8.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)