

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: P230617

Luminaire Tested: **22CZ-LD5-44SE-S-UNV-L935-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230617
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25712)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-44SE-S-UNV-L935-CD1-U
Description: CRUZE 2x2 LED TROFFER
WITH SMOOTH LENS
Light Source: (56) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3842.0 lumens
Efficiency: N/A
Efficacy: 96.0 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

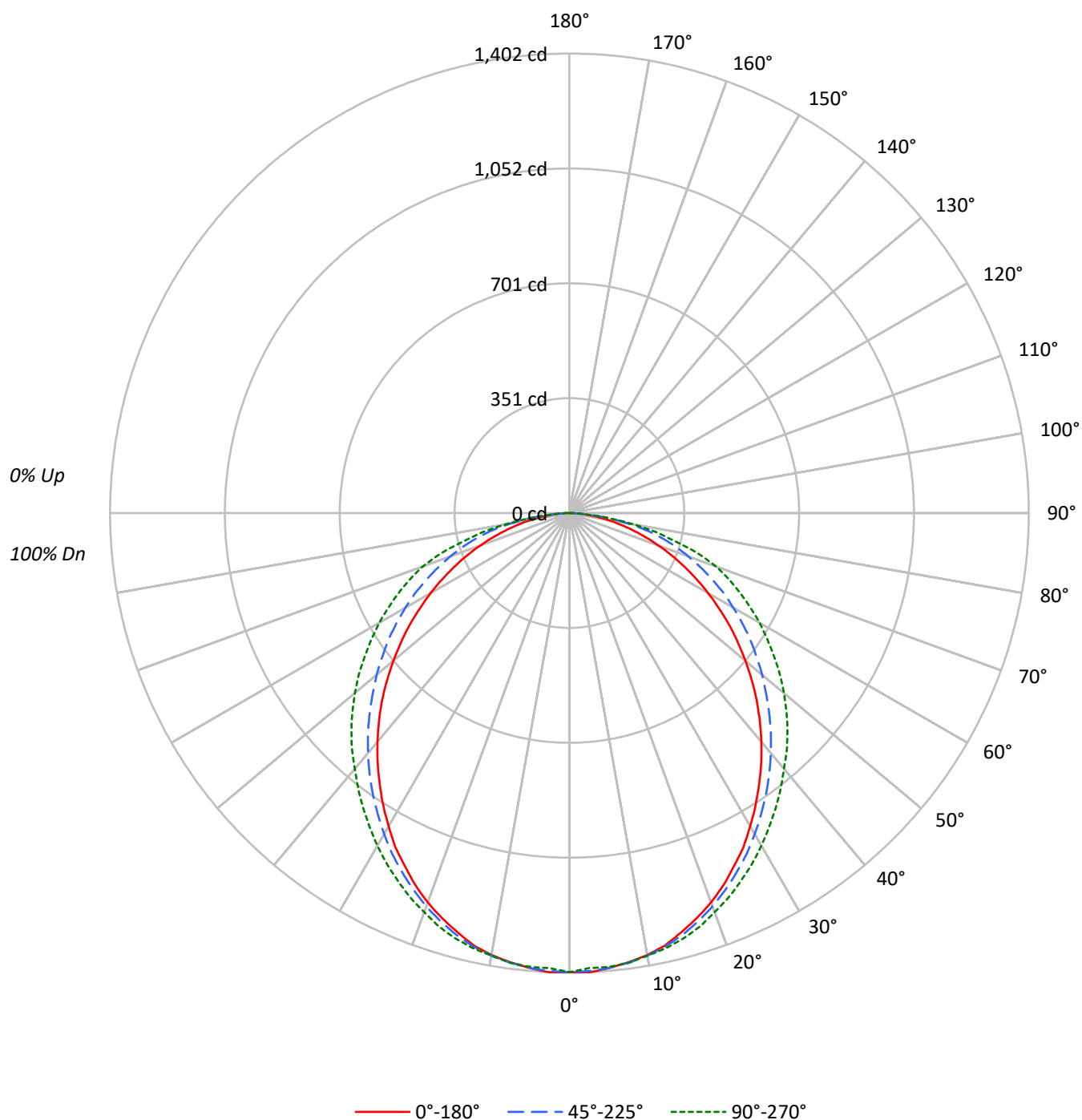
Input Watts (W): 40
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	104	99	95	106	101	97	94		97	94	91		93	91	88		90	87	85
2	99	90	83	77	96	88	82	77		85	79	75		81	77	73		78	75	71
3	90	79	71	64	87	78	70	64		75	68	63		72	66	62		69	64	60
4	82	70	61	54	80	69	61	54		66	59	53		64	58	53		62	56	52
5	76	63	54	47	74	62	53	47		59	52	46		57	51	46		56	50	45
6	70	56	47	41	68	56	47	41		54	46	40		52	45	40		50	44	40
7	65	51	42	36	63	50	42	36		49	41	36		47	41	36		46	40	35
8	60	47	38	32	59	46	38	32		45	37	32		43	37	32		42	36	32
9	56	43	35	29	55	42	34	29		41	34	29		40	34	29		39	33	29
10	53	40	32	26	52	39	32	26		38	31	26		37	31	26		36	30	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3769	3769	3769
5°	3764	3764	3754
10°	3742	3747	3747
15°	3686	3712	3743
20°	3620	3657	3710
25°	3529	3589	3676
30°	3429	3515	3641
35°	3316	3437	3607
40°	3202	3358	3578
45°	3076	3280	3581
50°	2936	3214	3577
55°	2797	3160	3575
60°	2632	3109	3605
65°	2467	3067	3654
70°	2279	3035	3746
75°	2053	3012	3473
80°	1802	2802	3031
85°	1482	2109	1880



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.3	3.4
10°-20°	375.7	9.8
20°-30°	558.1	14.5
30°-40°	656.9	17.1
40°-50°	669.7	17.4
50°-60°	604.0	15.7
60°-70°	475.7	12.4
70°-80°	293.5	7.6
80°-90°	76.2	2.0
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°	1066.1	27.7
0°-40°	1722.9	44.8
0°-60°	2996.6	78.0
0°-90°	3842.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3842.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1401	1401	1401	1401	1401	
5°	1393	1395	1393	1391	1390	132
15°	1323	1329	1332	1340	1343	373
25°	1188	1196	1209	1229	1238	548
35°	1009	1020	1046	1080	1098	631
45°	808	821	862	914	941	623
55°	596	616	674	734	762	532
65°	388	415	482	542	574	384
75°	198	231	290	323	334	211
85°	48	61	68	65	61	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1400.6	1400.6	1400.6	1400.6	1400.6
2.5°	1402.5	1402.5	1398.8	1395.1	1389.6
5°	1393.3	1395.1	1393.3	1391.4	1389.6
7.5°	1382.2	1384.0	1384.0	1384.0	1384.0
10°	1369.3	1371.1	1371.1	1371.1	1371.1
12.5°	1350.8	1352.7	1354.5	1356.3	1360.0
15°	1323.1	1328.7	1332.4	1339.7	1343.4
17.5°	1295.5	1301.0	1306.5	1315.7	1323.1
20°	1264.1	1267.8	1277.0	1288.1	1295.5
22.5°	1229.0	1234.6	1243.8	1258.5	1269.6
25°	1188.4	1195.8	1208.7	1229.0	1238.2
27.5°	1149.7	1155.2	1171.8	1194.0	1206.9
30°	1103.5	1110.9	1131.2	1158.9	1171.8
32.5°	1057.4	1066.6	1088.8	1120.1	1134.9
35°	1009.4	1020.5	1046.3	1079.5	1098.0
37.5°	961.4	972.5	1002.0	1038.9	1059.2
40°	911.6	922.7	955.9	996.5	1018.6
42.5°	859.9	872.9	909.8	955.9	981.7
45°	808.3	821.2	861.8	913.5	941.1
47.5°	754.8	769.5	813.8	871.0	898.7
50°	701.2	717.8	767.7	826.7	854.4
52.5°	647.7	666.2	719.7	780.6	810.1
55°	596.1	616.4	673.6	734.5	762.1
57.5°	540.7	564.7	625.6	684.6	716.0
60°	489.0	514.9	577.6	636.7	669.9
62.5°	437.4	465.0	531.5	590.5	621.9
65°	387.5	415.2	481.6	542.5	573.9
67.5°	337.7	369.1	433.7	494.6	525.9
70°	289.7	322.9	385.7	444.7	476.1
72.5°	243.6	276.8	339.5	394.9	413.4
75°	197.5	230.7	289.7	322.9	334.0
77.5°	155.0	186.4	238.1	258.4	273.1
80°	116.3	143.9	180.8	193.8	195.6
82.5°	79.4	103.3	125.5	127.3	125.5
85°	48.0	60.9	68.3	64.6	60.9
87.5°	22.1	24.0	22.1	14.8	9.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)