

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: P259368

Luminaire Tested: **22CZ-LD5-44-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259368
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-3000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3600.0 lumens
Efficiency: N/A
Efficacy: 104.9 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

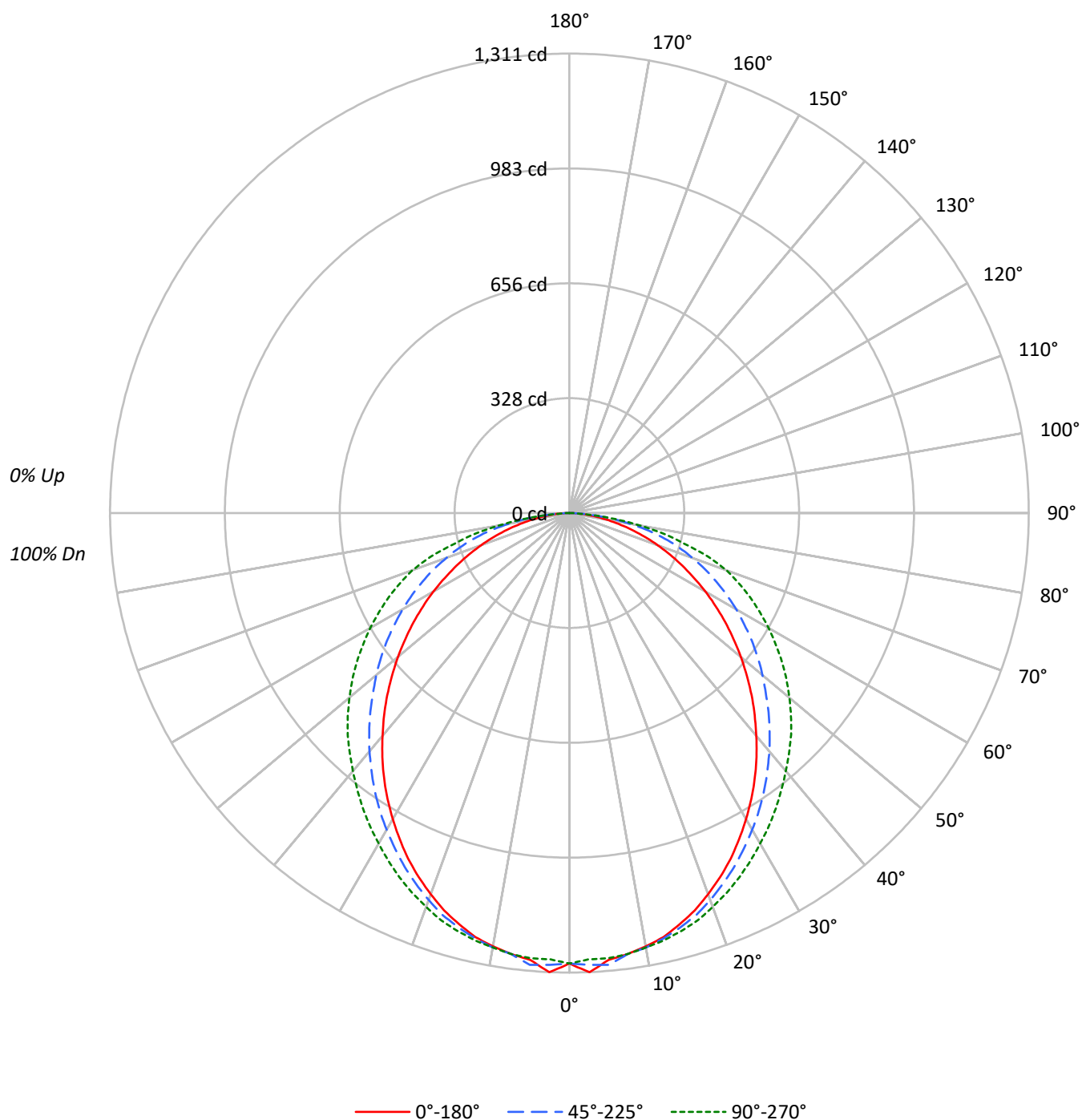
Input Watts (W): 34.317
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3458	3458	3458
5°	3457	3495	3443
10°	3430	3439	3439
15°	3385	3409	3438
20°	3314	3364	3424
25°	3233	3306	3405
30°	3133	3242	3384
35°	3031	3180	3376
40°	2915	3118	3376
45°	2798	3058	3405
50°	2675	3012	3430
55°	2546	2981	3474
60°	2412	2958	3533
65°	2263	2943	3623
70°	2107	2934	3747
75°	1911	2931	3550
80°	1655	2713	3147
85°	1405	2053	2001



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.9	3.4
10°-20°	345.2	9.6
20°-30°	513.5	14.3
30°-40°	607.4	16.9
40°-50°	624.3	17.3
50°-60°	570.4	15.8
60°-70°	456.3	12.7
70°-80°	286.4	8.0
80°-90°	74.6	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°	980.6	27.2
0°-40°	1588.0	44.1
0°-60°	2782.7	77.3
0°-90°	3600.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3600.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1285	1285	1285	1285	1285	
5°	1280	1280	1294	1285	1274	122
15°	1215	1217	1224	1231	1234	342
25°	1089	1096	1113	1133	1147	501
35°	923	935	968	1005	1028	577
45°	735	754	804	863	895	567
55°	543	569	636	706	740	485
65°	355	387	462	532	569	353
75°	184	219	282	324	341	195
85°	46	58	66	65	65	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1285.0	1285.0	1285.0	1285.0	1285.0
2.5°	1311.2	1306.0	1290.2	1279.7	1274.5
5°	1279.7	1279.7	1293.7	1285.0	1274.5
7.5°	1269.2	1269.2	1269.2	1295.5	1269.2
10°	1255.2	1257.0	1258.7	1269.2	1258.7
12.5°	1239.4	1239.4	1242.9	1246.4	1248.2
15°	1214.9	1216.7	1223.7	1230.7	1234.2
17.5°	1188.7	1193.9	1202.7	1211.4	1218.4
20°	1157.2	1164.2	1174.7	1188.7	1195.7
22.5°	1123.9	1130.9	1144.9	1160.7	1172.9
25°	1088.9	1095.9	1113.4	1132.7	1146.7
27.5°	1048.6	1057.4	1078.4	1104.6	1118.7
30°	1008.4	1018.9	1043.4	1073.1	1088.9
32.5°	966.3	978.6	1006.6	1039.9	1059.1
35°	922.6	934.8	968.1	1004.9	1027.6
37.5°	877.1	891.1	927.8	969.8	994.4
40°	829.8	845.6	887.6	933.1	961.1
42.5°	782.5	800.0	845.6	899.8	927.8
45°	735.3	754.5	803.5	863.1	894.6
47.5°	686.2	709.0	759.8	826.3	857.8
50°	639.0	661.7	719.5	787.8	819.3
52.5°	590.0	616.2	677.5	747.5	780.8
55°	542.7	569.0	635.5	705.5	740.5
57.5°	495.4	521.7	591.7	663.5	698.5
60°	448.2	476.2	549.7	619.7	656.5
62.5°	400.9	430.7	505.9	577.7	612.7
65°	355.4	386.9	462.2	532.2	569.0
67.5°	311.6	344.9	418.4	486.7	523.4
70°	267.8	301.1	372.9	439.4	476.2
72.5°	225.8	259.1	329.1	388.6	416.6
75°	183.8	218.8	281.9	323.9	341.4
77.5°	143.6	178.6	232.8	260.8	280.1
80°	106.8	136.5	175.1	196.1	203.1
82.5°	73.5	98.0	122.5	127.8	131.3
85°	45.5	57.8	66.5	64.8	64.8
87.5°	21.0	22.8	19.3	14.0	8.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)