

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: P259356

Luminaire Tested: **22CZ-LD5-34-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259356
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-LD5-34-UNV-L92765-W2A1-U-5700K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3239.1 lumens
Efficiency: N/A
Efficacy: 122.6 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

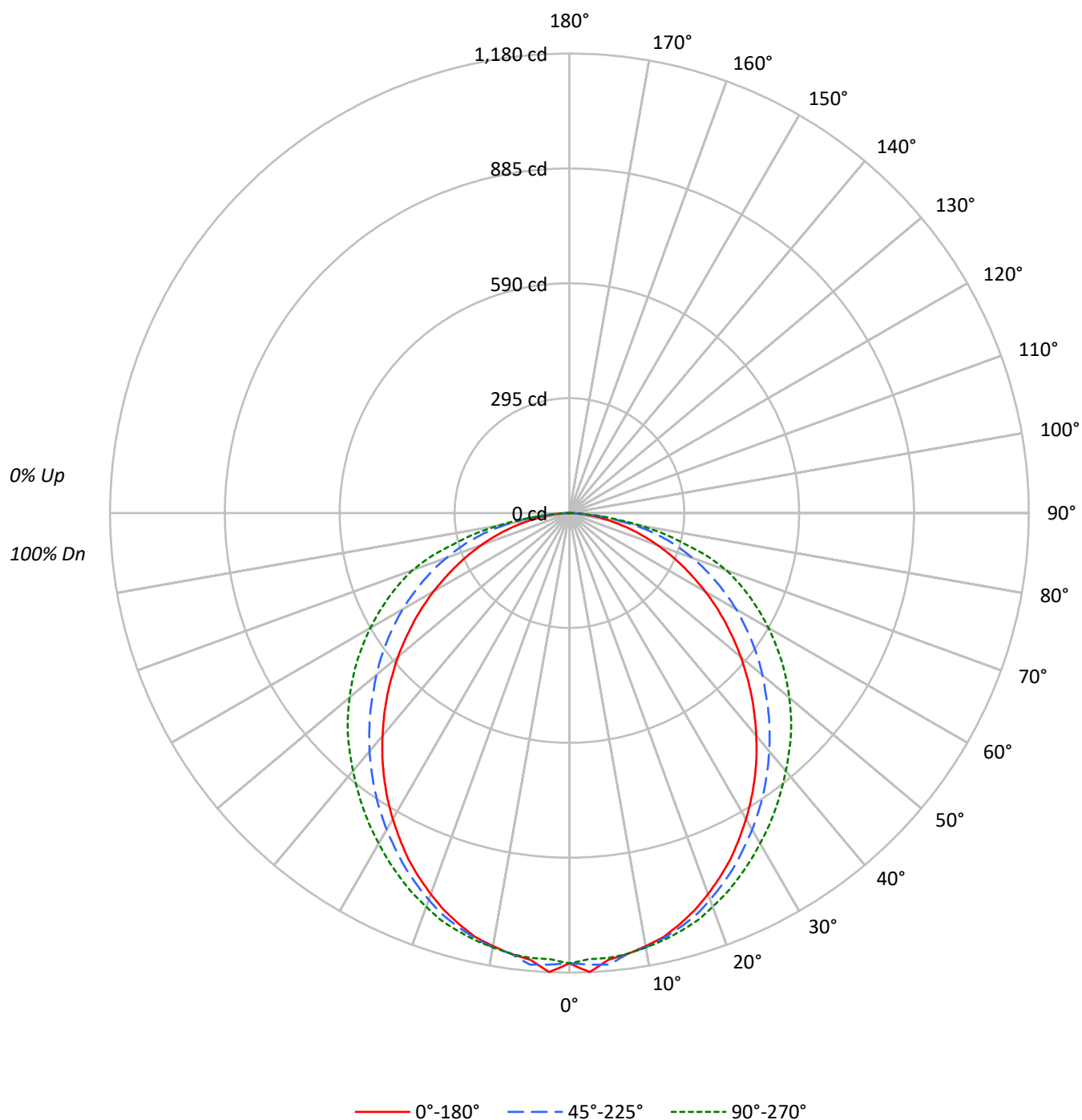
Input Watts (W): 26.412
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3111	3111	3111
5°	3110	3144	3098
10°	3086	3095	3095
15°	3045	3067	3093
20°	2981	3027	3081
25°	2909	2975	3063
30°	2819	2917	3044
35°	2727	2861	3037
40°	2623	2805	3038
45°	2517	2751	3063
50°	2407	2710	3086
55°	2291	2683	3126
60°	2170	2662	3179
65°	2036	2648	3259
70°	1896	2640	3371
75°	1720	2637	3193
80°	1489	2441	2831
85°	1266	1849	1800



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.7	3.4
10°-20°	310.6	9.6
20°-30°	462.0	14.3
30°-40°	546.5	16.9
40°-50°	561.7	17.3
50°-60°	513.3	15.8
60°-70°	410.6	12.7
70°-80°	257.7	8.0
80°-90°	67.1	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°	882.3	27.2
0°-40°	1428.8	44.1
0°-60°	2503.7	77.3
0°-90°	3239.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3239.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1156	1156	1156	1156	1156	
5°	1151	1151	1164	1156	1147	109
15°	1093	1095	1101	1107	1110	308
25°	980	986	1002	1019	1032	450
35°	830	841	871	904	925	519
45°	662	679	723	776	805	510
55°	488	512	572	635	666	437
65°	320	348	416	479	512	317
75°	165	197	254	291	307	176
85°	41	52	60	58	58	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1156.1	1156.1	1156.1	1156.1	1156.1
2.5°	1179.7	1175.0	1160.8	1151.4	1146.7
5°	1151.4	1151.4	1164.0	1156.1	1146.7
7.5°	1141.9	1141.9	1141.9	1165.6	1141.9
10°	1129.3	1130.9	1132.5	1141.9	1132.5
12.5°	1115.2	1115.2	1118.3	1121.5	1123.0
15°	1093.1	1094.7	1101.0	1107.3	1110.4
17.5°	1069.5	1074.2	1082.1	1090.0	1096.3
20°	1041.1	1047.4	1056.9	1069.5	1075.8
22.5°	1011.2	1017.5	1030.1	1044.3	1055.3
25°	979.7	986.0	1001.8	1019.1	1031.7
27.5°	943.5	951.3	970.2	993.9	1006.5
30°	907.2	916.7	938.7	965.5	979.7
32.5°	869.4	880.5	905.7	935.6	952.9
35°	830.1	841.1	871.0	904.1	924.6
37.5°	789.1	801.7	834.8	872.6	894.6
40°	746.6	760.8	798.6	839.5	864.7
42.5°	704.1	719.8	760.8	809.6	834.8
45°	661.5	678.9	723.0	776.5	804.9
47.5°	617.4	637.9	683.6	743.4	771.8
50°	574.9	595.4	647.4	708.8	737.1
52.5°	530.8	554.4	609.6	672.6	702.5
55°	488.3	511.9	571.8	634.8	666.3
57.5°	445.7	469.4	532.4	597.0	628.5
60°	403.2	428.4	494.6	557.6	590.7
62.5°	360.7	387.5	455.2	519.8	551.3
65°	319.7	348.1	415.8	478.8	511.9
67.5°	280.4	310.3	376.4	437.9	470.9
70°	241.0	270.9	335.5	395.3	428.4
72.5°	203.2	233.1	296.1	349.7	374.9
75°	165.4	196.9	253.6	291.4	307.1
77.5°	129.2	160.7	209.5	234.7	252.0
80°	96.1	122.9	157.5	176.4	182.7
82.5°	66.2	88.2	110.3	115.0	118.1
85°	41.0	52.0	59.9	58.3	58.3
87.5°	18.9	20.5	17.3	12.6	7.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)