

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: P275540

Luminaire Tested: **14CZ2-39-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275540
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-49)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-39-UNV-L92765-W2A1-U-3500K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3291.0 lumens
Efficiency: N/A
Efficacy: 105.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

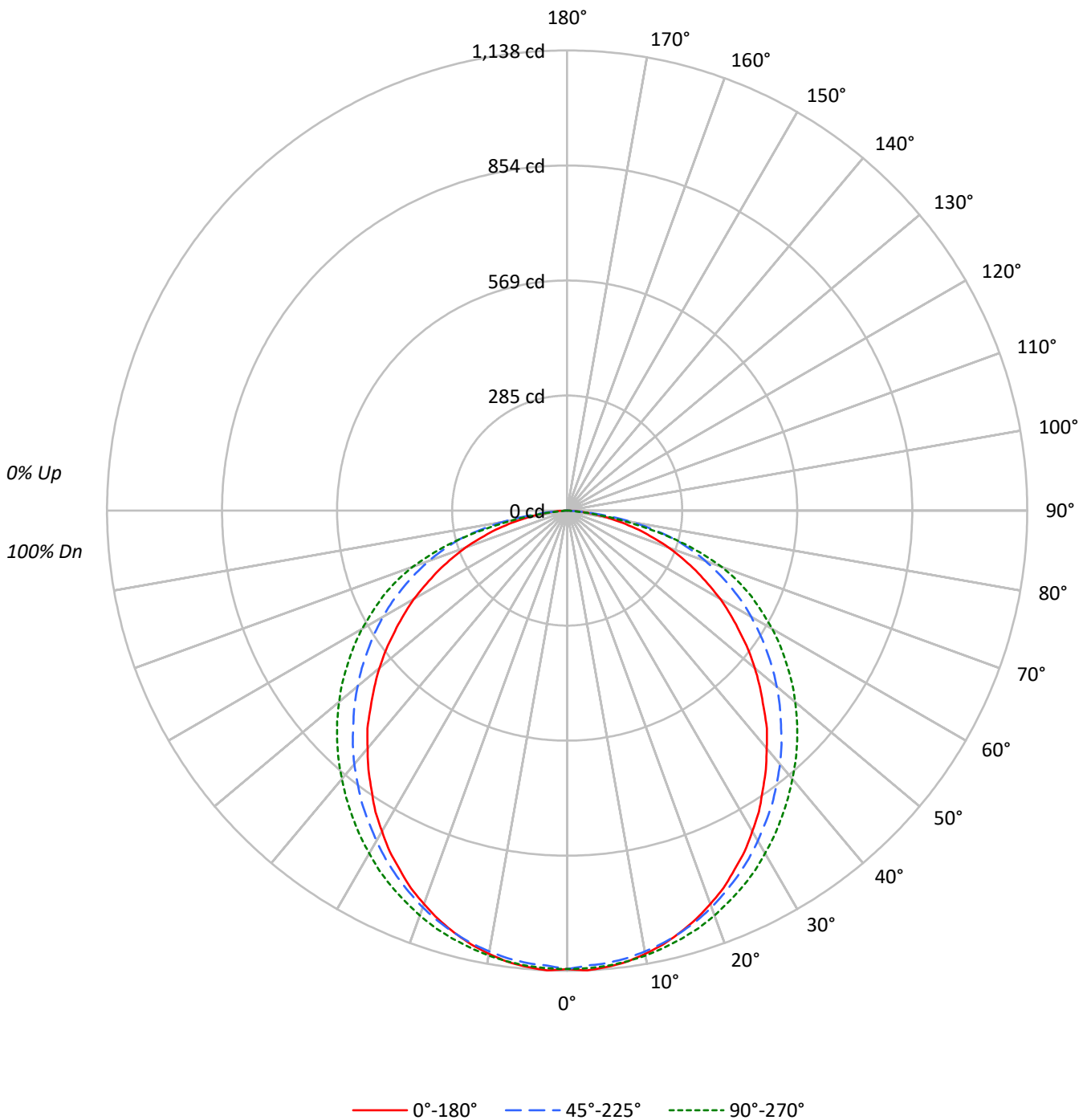
Input Watts (W): 31.062
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	37	30	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3051	3051	3051
5°	3061	3035	3053
10°	3042	3026	3054
15°	3009	3011	3052
20°	2965	2990	3051
25°	2909	2961	3048
30°	2846	2930	3042
35°	2770	2905	3040
40°	2696	2877	3044
45°	2614	2846	3061
50°	2537	2833	3081
55°	2441	2823	3109
60°	2354	2828	3152
65°	2234	2836	3201
70°	2096	2858	3198
75°	1900	2884	2891
80°	1557	2490	2058
85°	1155	1179	475



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.3	3.3
10°-20°	306.5	9.3
20°-30°	461.7	14.0
30°-40°	554.0	16.8
40°-50°	577.4	17.5
50°-60°	534.5	16.2
60°-70°	431.9	13.1
70°-80°	263.3	8.0
80°-90°	54.4	1.7
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°	875.4	26.6
0°-40°	1429.4	43.4
0°-60°	2541.4	77.2
0°-90°	3291.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3291.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1134	1134	1134	1134	1134	
5°	1133	1130	1124	1132	1130	108
15°	1080	1081	1081	1096	1096	304
25°	980	986	997	1022	1027	452
35°	843	856	884	916	925	528
45°	687	707	748	790	804	531
55°	520	547	602	649	663	466
65°	351	385	445	490	503	347
75°	183	223	277	282	278	192
85°	37	56	38	21	15	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1133.8	1133.8	1133.8	1133.8	1133.8
2.5°	1138.2	1134.5	1126.4	1134.5	1133.0
5°	1133.0	1130.1	1123.5	1131.6	1130.1
7.5°	1125.7	1122.8	1116.9	1126.4	1125.0
10°	1113.2	1111.7	1107.3	1118.3	1117.6
12.5°	1098.5	1097.8	1095.6	1108.1	1107.3
15°	1080.2	1080.9	1080.9	1095.6	1095.6
17.5°	1059.6	1061.1	1064.0	1080.2	1082.4
20°	1035.4	1038.4	1044.2	1062.6	1065.5
22.5°	1010.5	1012.7	1021.5	1043.5	1046.4
25°	979.7	985.5	997.3	1022.2	1026.6
27.5°	950.3	955.4	971.6	997.3	1004.6
30°	915.8	923.9	943.0	970.9	978.9
32.5°	882.8	891.6	913.6	945.9	953.2
35°	843.2	856.4	884.3	916.5	925.4
37.5°	807.2	819.7	851.2	886.5	896.7
40°	767.6	783.0	818.9	856.4	866.6
42.5°	730.9	745.6	784.5	822.6	836.6
45°	686.9	707.4	747.8	789.6	804.3
47.5°	646.5	667.0	713.3	758.0	771.3
50°	606.1	628.2	676.6	722.8	736.0
52.5°	564.3	587.8	639.9	686.1	701.5
55°	520.3	547.4	601.7	648.7	662.6
57.5°	478.5	506.3	564.3	612.0	626.0
60°	437.4	466.0	525.4	570.9	585.6
62.5°	391.9	425.6	487.3	532.0	543.0
65°	350.8	385.3	445.4	490.2	502.7
67.5°	307.5	344.9	405.1	446.2	457.9
70°	266.4	305.3	363.2	401.4	406.5
72.5°	222.3	262.0	320.7	344.9	344.9
75°	182.7	223.1	277.4	281.8	278.1
77.5°	139.4	184.2	219.4	210.6	201.8
80°	100.5	144.6	160.7	144.6	132.8
82.5°	67.5	104.9	96.9	77.1	68.2
85°	37.4	55.8	38.2	21.3	15.4
87.5°	13.9	12.5	3.7	3.7	3.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)