

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: P258682

Luminaire Tested: **14CZ-LD5-35-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258682
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35573)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-35-UNV-L92765-W2A1-U-5000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3268.1 lumens
Efficiency: N/A
Efficacy: 116.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

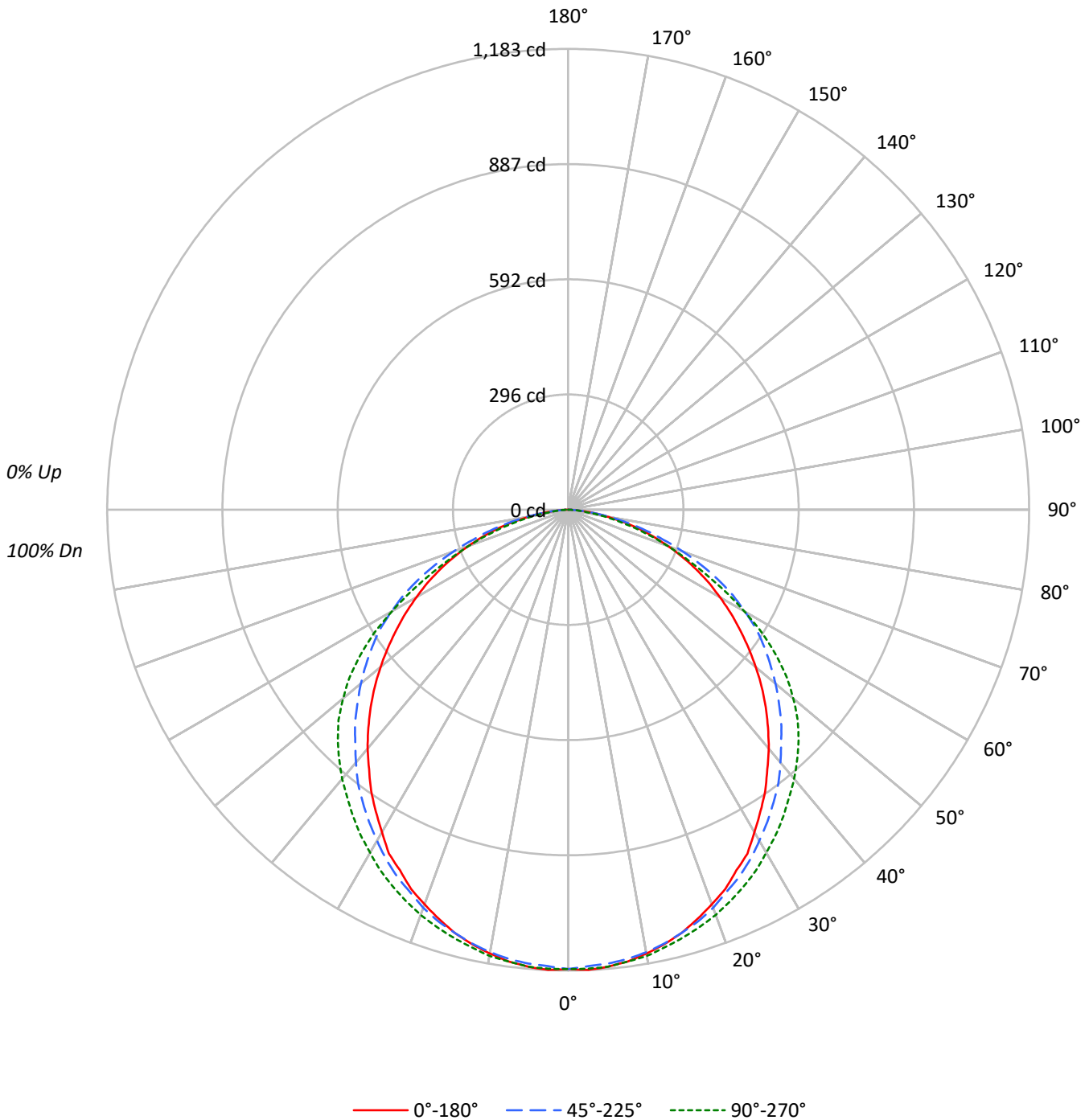
Input Watts (W): 28.086
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70
3	90	80	72	66	88	78	71	65	75	69	64	73	67	63	70	66	62	59
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	47	40	36	34
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	29	42	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3173	3173	3173
5°	3181	3160	3181
10°	3161	3152	3178
15°	3133	3133	3169
20°	3086	3114	3170
25°	3033	3086	3167
30°	2969	3049	3159
35°	2895	3017	3160
40°	2813	2977	3169
45°	2728	2943	3182
50°	2630	2907	3157
55°	2525	2880	3054
60°	2419	2818	2809
65°	2308	2698	2462
70°	2142	2460	2130
75°	1943	2144	1759
80°	1548	1698	1299
85°	1093	945	747



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.6	3.4
10°-20°	318.8	9.8
20°-30°	480.6	14.7
30°-40°	576.1	17.6
40°-50°	597.9	18.3
50°-60°	539.3	16.5
60°-70°	393.4	12.0
70°-80°	206.4	6.3
80°-90°	44.0	1.3
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°	911.0	27.9
0°-40°	1487.1	45.5
0°-60°	2624.2	80.3
0°-90°	3268.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3268.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1179	1179	1179	1179	1179	
5°	1178	1174	1170	1178	1178	112
15°	1125	1125	1125	1137	1137	317
25°	1021	1026	1039	1062	1067	471
35°	881	891	918	952	962	550
45°	717	731	773	820	836	553
55°	538	557	614	654	651	482
65°	362	383	424	408	387	358
75°	187	213	206	179	169	196
85°	35	44	31	26	24	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1179.3	1179.3	1179.3	1179.3	1179.3
2.5°	1182.6	1179.3	1172.9	1179.3	1179.3
5°	1177.7	1174.5	1169.7	1177.7	1177.7
7.5°	1169.7	1166.4	1163.2	1171.3	1169.7
10°	1156.8	1155.2	1153.6	1163.2	1163.2
12.5°	1142.3	1142.3	1140.7	1151.9	1150.3
15°	1124.6	1124.6	1124.6	1137.4	1137.4
17.5°	1102.0	1105.2	1108.4	1122.9	1122.9
20°	1077.8	1081.1	1087.5	1105.2	1106.8
22.5°	1053.7	1055.3	1061.7	1082.7	1087.5
25°	1021.4	1026.3	1039.2	1061.7	1066.6
27.5°	995.7	997.3	1011.8	1037.6	1044.0
30°	955.4	966.7	981.2	1010.2	1016.6
32.5°	918.3	928.0	950.6	981.2	990.8
35°	881.3	890.9	918.3	952.2	961.8
37.5°	839.4	853.9	886.1	919.9	931.2
40°	800.7	813.6	847.4	889.3	902.2
42.5°	758.8	771.7	808.8	855.5	870.0
45°	716.9	731.4	773.3	820.1	836.2
47.5°	673.4	689.6	733.1	784.6	799.1
50°	628.3	646.1	694.4	747.6	754.0
52.5°	583.2	602.6	654.1	700.8	707.3
55°	538.1	557.4	613.8	654.1	650.9
57.5°	494.6	515.6	573.6	594.5	591.3
60°	449.5	472.1	523.6	533.3	522.0
62.5°	407.6	428.6	476.9	468.8	454.3
65°	362.5	383.4	423.7	407.6	386.7
67.5°	317.4	343.2	368.9	341.6	325.4
70°	272.3	301.3	312.6	285.2	270.7
72.5°	228.8	259.4	256.2	228.8	219.1
75°	186.9	212.7	206.2	178.8	169.2
77.5°	141.8	170.8	156.3	133.7	125.7
80°	99.9	125.7	109.6	90.2	83.8
82.5°	66.1	83.8	67.7	53.2	48.3
85°	35.4	43.5	30.6	25.8	24.2
87.5°	14.5	12.9	11.3	11.3	9.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)