

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: P258679

Luminaire Tested: **14CZ-LD5-35-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258679
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-3500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3025.0 lumens
Efficiency: N/A
Efficacy: 109.9 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

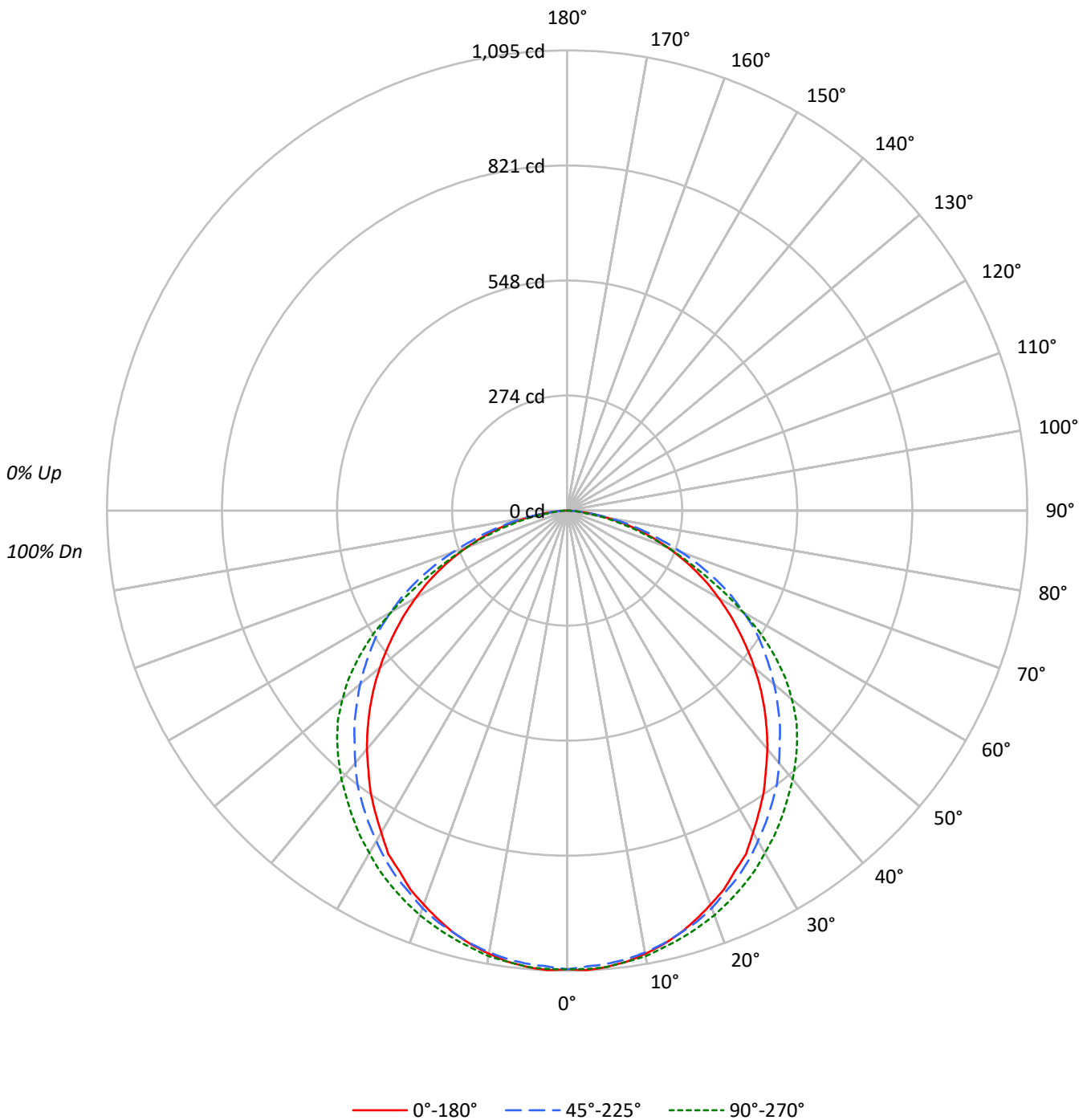
Input Watts (W): 27.528
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2937	2937	2937
5°	2945	2925	2945
10°	2926	2918	2942
15°	2900	2900	2933
20°	2857	2883	2934
25°	2807	2856	2931
30°	2748	2822	2924
35°	2680	2792	2925
40°	2604	2755	2934
45°	2525	2724	2946
50°	2435	2691	2922
55°	2337	2666	2827
60°	2239	2609	2601
65°	2136	2497	2279
70°	1983	2276	1971
75°	1799	1985	1628
80°	1433	1571	1201
85°	1013	874	692



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.3	3.4
10°-20°	295.1	9.8
20°-30°	444.9	14.7
30°-40°	533.3	17.6
40°-50°	553.4	18.3
50°-60°	499.2	16.5
60°-70°	364.1	12.0
70°-80°	191.0	6.3
80°-90°	40.7	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°	843.3	27.9
0°-40°	1376.5	45.5
0°-60°	2429.1	80.3
0°-90°	3025.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3025.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1092	1092	1092	1092	1092	
5°	1090	1087	1083	1090	1090	103
15°	1041	1041	1041	1053	1053	293
25°	946	950	962	983	987	436
35°	816	825	850	881	890	510
45°	664	677	716	759	774	512
55°	498	516	568	606	602	446
65°	336	355	392	377	358	332
75°	173	197	191	166	157	181
85°	33	40	28	24	22	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1091.6	1091.6	1091.6	1091.6	1091.6
2.5°	1094.6	1091.6	1085.7	1091.6	1091.6
5°	1090.1	1087.2	1082.7	1090.1	1090.1
7.5°	1082.7	1079.7	1076.7	1084.2	1082.7
10°	1070.8	1069.3	1067.8	1076.7	1076.7
12.5°	1057.3	1057.3	1055.8	1066.3	1064.8
15°	1040.9	1040.9	1040.9	1052.9	1052.9
17.5°	1020.1	1023.0	1026.0	1039.4	1039.4
20°	997.7	1000.7	1006.6	1023.0	1024.5
22.5°	975.3	976.8	982.8	1002.2	1006.6
25°	945.5	950.0	961.9	982.8	987.2
27.5°	921.6	923.1	936.5	960.4	966.4
30°	884.3	894.8	908.2	935.0	941.0
32.5°	850.0	859.0	879.9	908.2	917.2
35°	815.7	824.7	850.0	881.4	890.3
37.5°	777.0	790.4	820.2	851.5	862.0
40°	741.2	753.1	784.4	823.2	835.1
42.5°	702.4	714.3	748.6	791.9	805.3
45°	663.6	677.1	715.8	759.1	774.0
47.5°	623.4	638.3	678.5	726.3	739.7
50°	581.6	598.0	642.8	692.0	697.9
52.5°	539.9	557.7	605.5	648.7	654.7
55°	498.1	516.0	568.2	605.5	602.5
57.5°	457.8	477.2	530.9	550.3	547.3
60°	416.1	437.0	484.7	493.6	483.2
62.5°	377.3	396.7	441.4	434.0	420.5
65°	335.5	354.9	392.2	377.3	357.9
67.5°	293.8	317.6	341.5	316.2	301.2
70°	252.0	278.9	289.3	264.0	250.5
72.5°	211.8	240.1	237.1	211.8	202.8
75°	173.0	196.9	190.9	165.5	156.6
77.5°	131.2	158.1	144.7	123.8	116.3
80°	92.5	116.3	101.4	83.5	77.5
82.5°	61.1	77.5	62.6	49.2	44.7
85°	32.8	40.3	28.3	23.9	22.4
87.5°	13.4	11.9	10.4	10.4	8.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)