

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: P258586

Luminaire Tested: **14CZ-LD5-39-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258586
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-LD5-39-UNV-L93050-W2A1-U-3000K
Description: CRUZE 1x4 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: 3035.0 lumens
Efficiency: N/A
Efficacy: 95.7 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

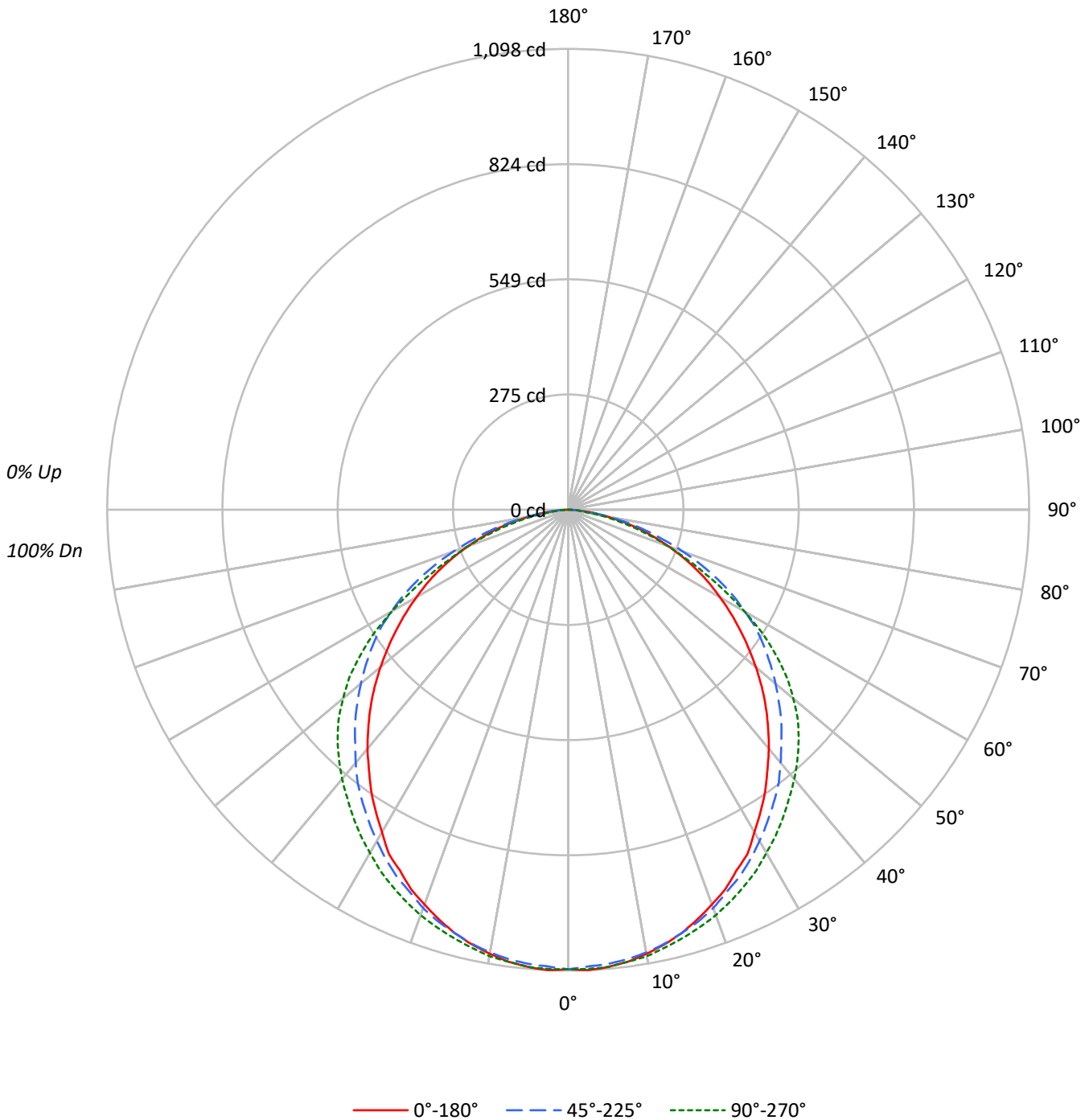
Input Watts (W): 31.713
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2947	2947	2947
5°	2954	2934	2954
10°	2936	2927	2952
15°	2910	2910	2943
20°	2867	2892	2944
25°	2817	2866	2941
30°	2757	2831	2934
35°	2689	2802	2935
40°	2612	2765	2943
45°	2534	2733	2955
50°	2443	2700	2931
55°	2344	2675	2836
60°	2247	2617	2609
65°	2144	2506	2287
70°	1990	2284	1978
75°	1805	1991	1633
80°	1438	1576	1206
85°	1016	877	692



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.6	3.4
10°-20°	296.0	9.8
20°-30°	446.4	14.7
30°-40°	535.0	17.6
40°-50°	555.2	18.3
50°-60°	500.8	16.5
60°-70°	365.3	12.0
70°-80°	191.7	6.3
80°-90°	40.9	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°	846.0	27.9
0°-40°	1381.1	45.5
0°-60°	2437.1	80.3
0°-90°	3035.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3035.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1095	1095	1095	1095	1095	
5°	1094	1091	1086	1094	1094	104
15°	1044	1044	1044	1056	1056	294
25°	949	953	965	986	990	438
35°	818	827	853	884	893	511
45°	666	679	718	762	776	513
55°	500	518	570	608	604	447
65°	337	356	394	378	359	333
75°	174	198	192	166	157	182
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°	1095.2	1095.2	1095.2	1095.2	1095.2
2.5°	1098.2	1095.2	1089.3	1095.2	1095.2
5°	1093.7	1090.8	1086.3	1093.7	1093.7
7.5°	1086.3	1083.3	1080.3	1087.8	1086.3
10°	1074.3	1072.8	1071.3	1080.3	1080.3
12.5°	1060.8	1060.8	1059.3	1069.8	1068.3
15°	1044.4	1044.4	1044.4	1056.3	1056.3
17.5°	1023.4	1026.4	1029.4	1042.9	1042.9
20°	1001.0	1004.0	1010.0	1026.4	1027.9
22.5°	978.5	980.0	986.0	1005.5	1010.0
25°	948.6	953.1	965.1	986.0	990.5
27.5°	924.7	926.2	939.6	963.6	969.6
30°	887.3	897.7	911.2	938.1	944.1
32.5°	852.9	861.8	882.8	911.2	920.2
35°	818.4	827.4	852.9	884.3	893.3
37.5°	779.5	793.0	822.9	854.4	864.8
40°	743.6	755.6	787.0	825.9	837.9
42.5°	704.7	716.7	751.1	794.5	808.0
45°	665.8	679.3	718.2	761.6	776.5
47.5°	625.4	640.4	680.8	728.7	742.1
50°	583.5	600.0	644.9	694.3	700.2
52.5°	541.6	559.6	607.5	650.9	656.8
55°	499.7	517.7	570.1	607.5	604.5
57.5°	459.3	478.8	532.7	552.1	549.1
60°	417.5	438.4	486.3	495.3	484.8
62.5°	378.5	398.0	442.9	435.4	421.9
65°	336.7	356.1	393.5	378.5	359.1
67.5°	294.8	318.7	342.6	317.2	302.2
70°	252.9	279.8	290.3	264.8	251.4
72.5°	212.5	240.9	237.9	212.5	203.5
75°	173.6	197.5	191.5	166.1	157.1
77.5°	131.7	158.6	145.1	124.2	116.7
80°	92.8	116.7	101.7	83.8	77.8
82.5°	61.3	77.8	62.8	49.4	44.9
85°	32.9	40.4	28.4	23.9	22.4
87.5°	13.5	12.0	10.5	10.5	9.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)