

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: P258750

Luminaire Tested: **14CZ-LD5-35-S-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258750
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35112)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-35-S-UNV-L93050-W2A1-U-3500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3065.0 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

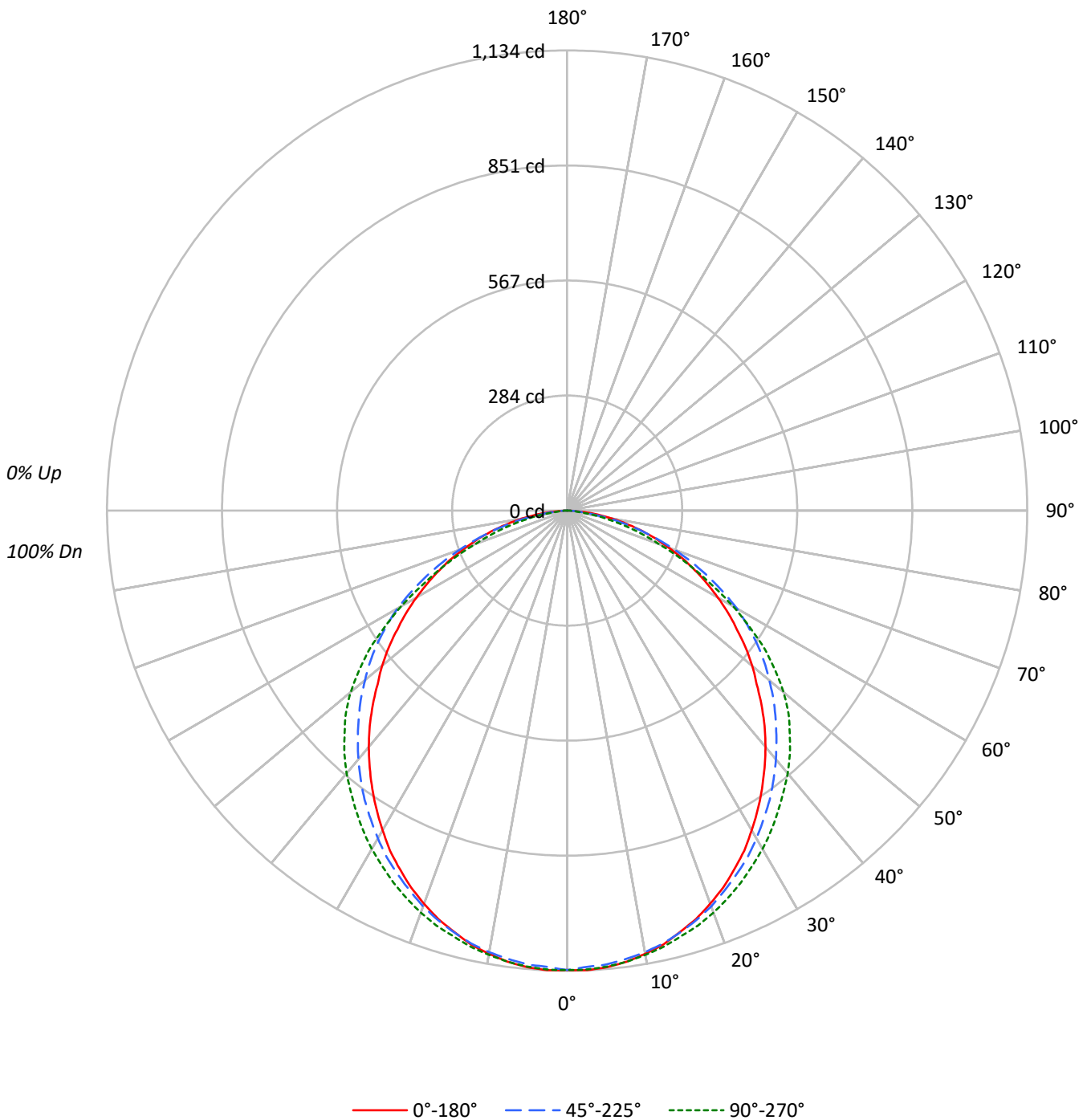
Input Watts (W): 27.993
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	100	97	106	102	98	95	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3047	3047	3047
5°	3051	3033	3047
10°	3030	3019	3038
15°	2995	2998	3025
20°	2953	2972	3019
25°	2896	2936	3005
30°	2826	2898	2992
35°	2750	2858	2975
40°	2672	2811	2970
45°	2578	2765	2952
50°	2493	2722	2916
55°	2396	2678	2787
60°	2308	2602	2544
65°	2209	2435	2235
70°	2085	2213	1891
75°	1945	1917	1562
80°	1714	1481	1144
85°	1349	716	633



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.0	3.5
10°-20°	304.8	9.9
20°-30°	457.4	14.9
30°-40°	545.3	17.8
40°-50°	561.7	18.3
50°-60°	500.6	16.3
60°-70°	360.7	11.8
70°-80°	188.6	6.2
80°-90°	39.0	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°	869.2	28.4
0°-40°	1414.4	46.1
0°-60°	2476.7	80.8
0°-90°	3065.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3065.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1132	1132	1132	1132	1132	
5°	1130	1127	1123	1130	1128	107
15°	1075	1076	1076	1087	1086	303
25°	975	981	989	1008	1012	449
35°	837	848	870	899	906	524
45°	677	692	727	768	776	523
55°	511	527	571	597	594	458
65°	347	359	382	365	351	344
75°	187	197	184	160	150	198
85°	44	38	23	20	20	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1132.2	1132.2	1132.2	1132.2	1132.2
2.5°	1133.6	1130.8	1125.4	1132.2	1132.2
5°	1129.5	1126.7	1122.7	1129.5	1128.1
7.5°	1121.3	1118.6	1114.5	1122.7	1121.3
10°	1109.0	1107.6	1104.9	1113.1	1111.7
12.5°	1095.3	1094.0	1092.6	1100.8	1100.8
15°	1074.9	1076.2	1076.2	1087.1	1085.8
17.5°	1055.7	1057.1	1058.5	1072.1	1072.1
20°	1031.1	1032.5	1038.0	1053.0	1054.4
22.5°	1005.2	1006.6	1013.4	1031.1	1033.9
25°	975.2	980.6	988.8	1007.9	1012.0
27.5°	945.1	949.2	962.9	984.7	987.4
30°	909.6	917.8	932.8	957.4	962.9
32.5°	874.1	883.6	901.4	928.7	935.5
35°	837.2	848.1	870.0	898.7	905.5
37.5°	799.0	808.5	835.8	865.9	875.4
40°	760.7	770.3	800.3	834.5	845.4
42.5°	719.8	733.4	763.5	801.7	812.6
45°	677.4	692.4	726.6	767.6	775.7
47.5°	633.7	650.1	689.7	730.7	740.2
50°	595.5	610.5	650.1	689.7	696.5
52.5°	554.5	568.2	611.9	644.6	646.0
55°	510.8	527.2	570.9	596.8	594.1
57.5°	471.2	484.8	527.2	540.8	532.6
60°	428.8	441.1	483.5	484.8	472.6
62.5°	387.9	400.2	432.9	423.4	408.4
65°	346.9	359.2	382.4	364.7	351.0
67.5°	307.3	318.2	331.9	308.7	295.0
70°	265.0	280.0	281.3	254.0	240.4
72.5°	228.1	236.3	233.5	207.6	195.3
75°	187.1	196.7	184.4	159.8	150.2
77.5°	148.9	155.7	139.3	116.1	109.3
80°	110.6	114.7	95.6	77.8	73.8
82.5°	75.1	75.1	54.6	42.3	38.2
85°	43.7	38.2	23.2	20.5	20.5
87.5°	15.0	9.6	9.6	9.6	9.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)