

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: P258850

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258850
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-L92765-W2A1-U-5000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3333.0 lumens
Efficiency: N/A
Efficacy: 118.7 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

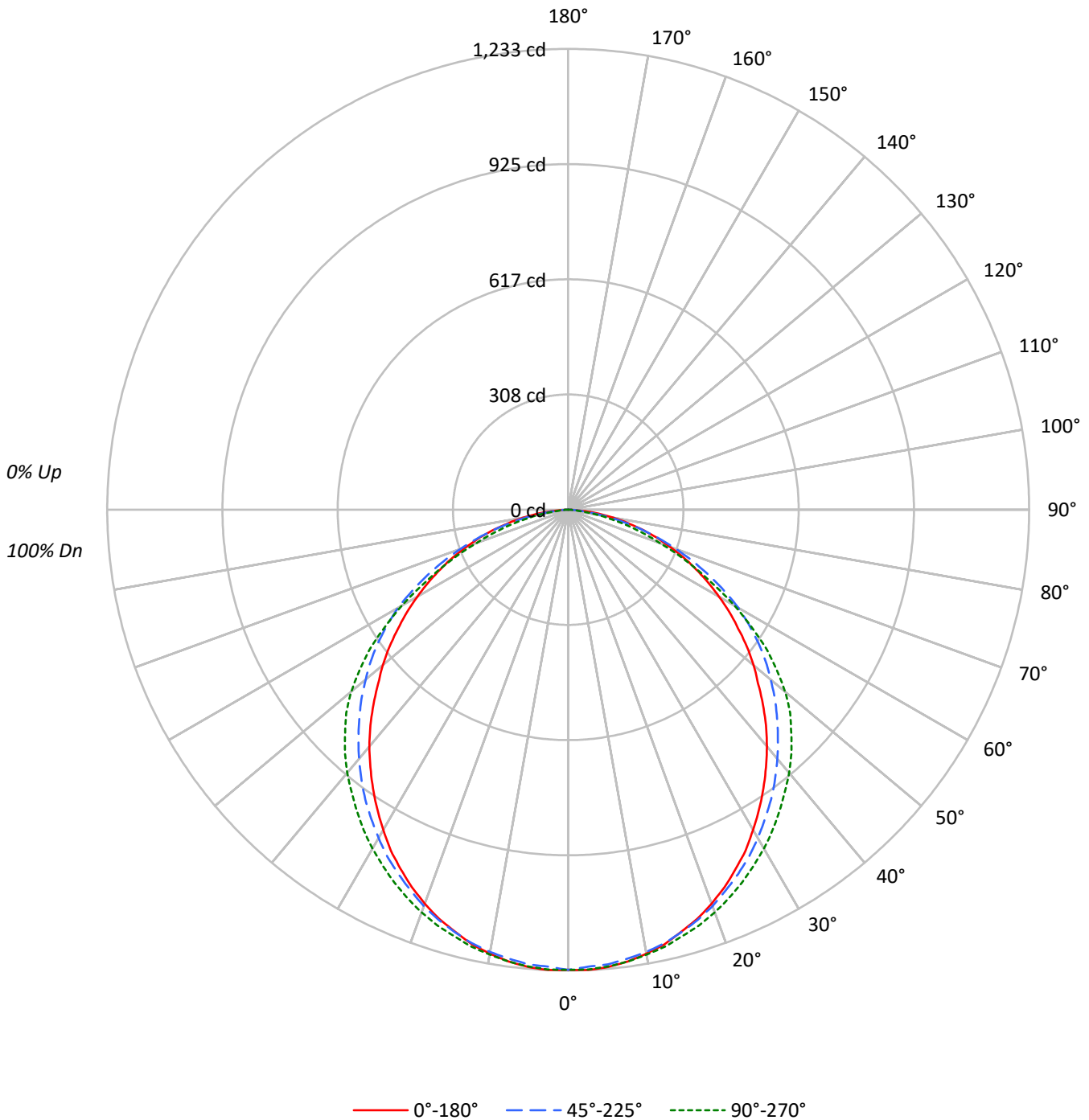
Input Watts (W): 28.086
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3313	3313	3313
5°	3318	3298	3314
10°	3295	3283	3303
15°	3256	3260	3289
20°	3211	3232	3283
25°	3149	3193	3268
30°	3073	3152	3253
35°	2991	3108	3235
40°	2906	3057	3229
45°	2803	3007	3210
50°	2711	2959	3171
55°	2606	2913	3031
60°	2510	2830	2766
65°	2402	2648	2430
70°	2267	2407	2057
75°	2116	2085	1699
80°	1864	1612	1243
85°	1467	778	689



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.3	3.5
10°-20°	331.4	9.9
20°-30°	497.4	14.9
30°-40°	593.0	17.8
40°-50°	610.8	18.3
50°-60°	544.3	16.3
60°-70°	392.2	11.8
70°-80°	205.1	6.2
80°-90°	42.4	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°	945.2	28.4
0°-40°	1538.1	46.1
0°-60°	2693.2	80.8
0°-90°	3333.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3333.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1231	1231	1231	1231	1231	
5°	1228	1225	1221	1228	1227	117
15°	1169	1170	1170	1182	1181	330
25°	1060	1066	1075	1096	1100	488
35°	910	922	946	977	985	569
45°	737	753	790	835	844	568
55°	556	573	621	649	646	498
65°	377	391	416	396	382	374
75°	204	214	200	174	163	216
85°	48	42	25	22	22	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1231.2	1231.2	1231.2	1231.2	1231.2
2.5°	1232.7	1229.7	1223.8	1231.2	1231.2
5°	1228.2	1225.3	1220.8	1228.2	1226.8
7.5°	1219.3	1216.4	1211.9	1220.8	1219.3
10°	1206.0	1204.5	1201.5	1210.4	1208.9
12.5°	1191.1	1189.6	1188.1	1197.1	1197.1
15°	1168.8	1170.3	1170.3	1182.2	1180.7
17.5°	1148.0	1149.5	1151.0	1165.9	1165.9
20°	1121.3	1122.8	1128.7	1145.1	1146.6
22.5°	1093.1	1094.6	1102.0	1121.3	1124.3
25°	1060.4	1066.4	1075.3	1096.1	1100.5
27.5°	1027.7	1032.2	1047.0	1070.8	1073.8
30°	989.1	998.0	1014.4	1041.1	1047.0
32.5°	950.5	960.9	980.2	1009.9	1017.3
35°	910.4	922.3	946.1	977.2	984.7
37.5°	868.8	879.2	908.9	941.6	952.0
40°	827.2	837.6	870.3	907.4	919.3
42.5°	782.7	797.5	830.2	871.8	883.7
45°	736.6	753.0	790.1	834.7	843.6
47.5°	689.1	706.9	750.0	794.6	805.0
50°	647.5	663.9	706.9	750.0	757.4
52.5°	603.0	617.8	665.4	701.0	702.5
55°	555.5	573.3	620.8	649.0	646.1
57.5°	512.4	527.2	573.3	588.1	579.2
60°	466.3	479.7	525.8	527.2	513.9
62.5°	421.8	435.2	470.8	460.4	444.1
65°	377.2	390.6	415.8	396.5	381.7
67.5°	334.2	346.0	360.9	335.6	320.8
70°	288.1	304.5	305.9	276.2	261.4
72.5°	248.0	256.9	254.0	225.7	212.4
75°	203.5	213.9	200.5	173.8	163.4
77.5°	161.9	169.3	151.5	126.2	118.8
80°	120.3	124.8	104.0	84.7	80.2
82.5°	81.7	81.7	59.4	46.0	41.6
85°	47.5	41.6	25.2	22.3	22.3
87.5°	16.3	10.4	10.4	10.4	10.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)