

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: P258794

Luminaire Tested: **14CZ-LD5-35-S-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258794
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-L82765-W2A1-U-4000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3600.0 lumens
Efficiency: N/A
Efficacy: 129.9 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

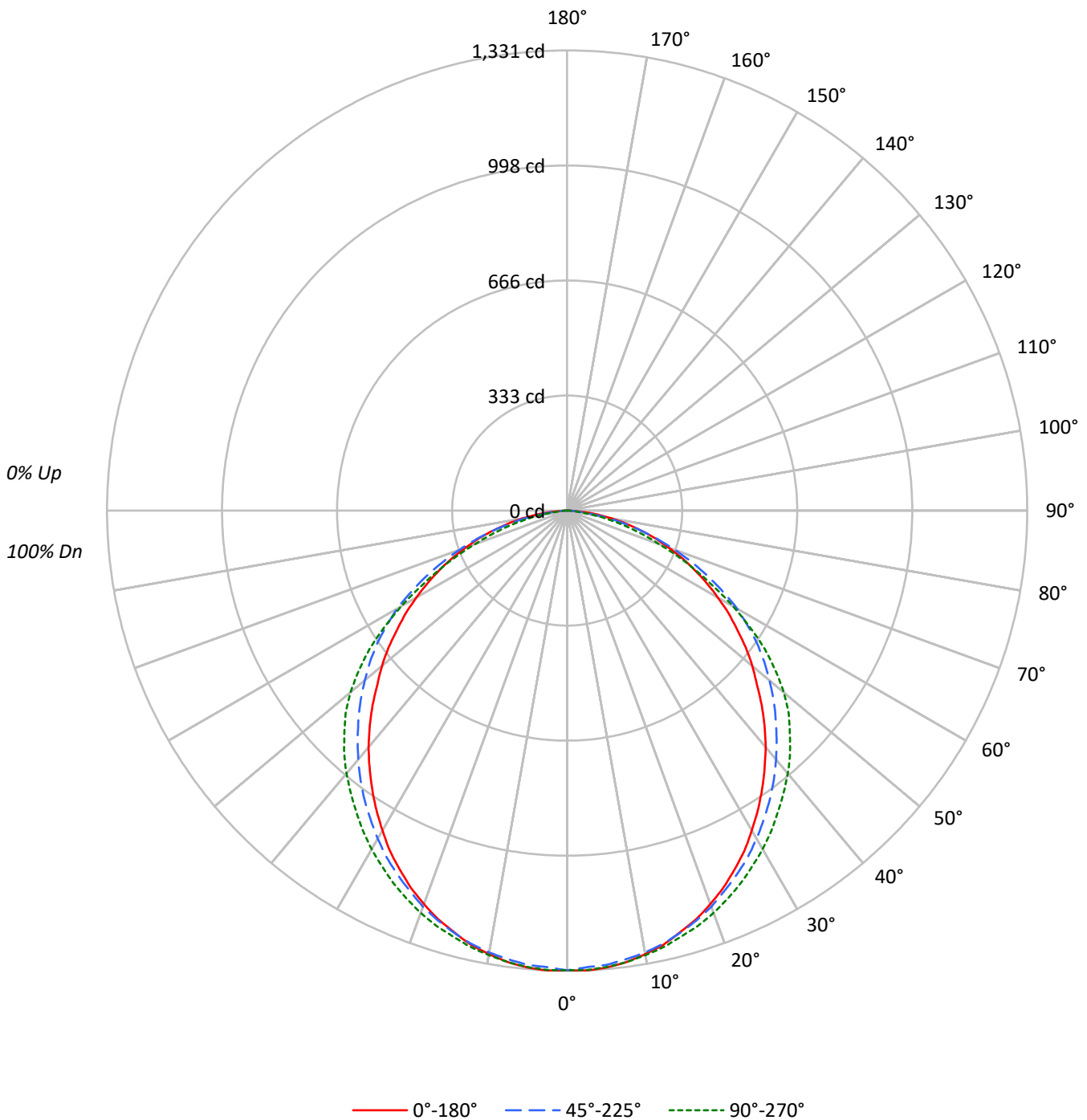
Input Watts (W): 27.714
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3578	3578	3578
5°	3583	3562	3579
10°	3559	3546	3568
15°	3517	3522	3553
20°	3468	3491	3546
25°	3401	3448	3529
30°	3320	3404	3514
35°	3230	3357	3494
40°	3139	3302	3488
45°	3028	3248	3468
50°	2928	3197	3425
55°	2815	3146	3274
60°	2711	3056	2987
65°	2595	2860	2625
70°	2448	2600	2221
75°	2285	2252	1835
80°	2013	1740	1342
85°	1584	843	744



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.7	3.5
10°-20°	358.0	9.9
20°-30°	537.2	14.9
30°-40°	640.5	17.8
40°-50°	659.7	18.3
50°-60°	587.9	16.3
60°-70°	423.6	11.8
70°-80°	221.6	6.2
80°-90°	45.8	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°	1020.9	28.4
0°-40°	1661.3	46.1
0°-60°	2909.0	80.8
0°-90°	3600.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3600.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1330	1330	1330	1330	1330	
5°	1327	1323	1319	1327	1325	126
15°	1262	1264	1264	1277	1275	356
25°	1145	1152	1161	1184	1189	528
35°	983	996	1022	1056	1064	615
45°	796	813	853	902	911	614
55°	600	619	670	701	698	538
65°	408	422	449	428	412	404
75°	220	231	217	188	176	233
85°	51	45	27	24	24	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1329.8	1329.8	1329.8	1329.8	1329.8
2.5°	1331.4	1328.2	1321.8	1329.8	1329.8
5°	1326.6	1323.4	1318.6	1326.6	1325.0
7.5°	1317.0	1313.8	1309.0	1318.6	1317.0
10°	1302.6	1301.0	1297.8	1307.4	1305.8
12.5°	1286.5	1284.9	1283.3	1292.9	1292.9
15°	1262.5	1264.1	1264.1	1276.9	1275.3
17.5°	1240.0	1241.6	1243.2	1259.3	1259.3
20°	1211.1	1212.7	1219.2	1236.8	1238.4
22.5°	1180.7	1182.3	1190.3	1211.1	1214.3
25°	1145.4	1151.8	1161.4	1183.9	1188.7
27.5°	1110.1	1114.9	1130.9	1156.6	1159.8
30°	1068.4	1078.0	1095.6	1124.5	1130.9
32.5°	1026.7	1037.9	1058.7	1090.8	1098.8
35°	983.3	996.2	1021.8	1055.5	1063.6
37.5°	938.4	949.7	981.7	1017.0	1028.3
40°	893.5	904.7	940.0	980.1	993.0
42.5°	845.4	861.4	896.7	941.6	954.5
45°	795.7	813.3	853.4	901.5	911.2
47.5°	744.3	763.6	810.1	858.2	869.4
50°	699.4	717.1	763.6	810.1	818.1
52.5°	651.3	667.3	718.7	757.2	758.8
55°	600.0	619.2	670.5	701.0	697.8
57.5°	553.4	569.5	619.2	635.2	625.6
60°	503.7	518.1	567.9	569.5	555.0
62.5°	455.6	470.0	508.5	497.3	479.6
65°	407.5	421.9	449.2	428.3	412.3
67.5°	360.9	373.8	389.8	362.5	346.5
70°	311.2	328.9	330.5	298.4	282.3
72.5°	267.9	277.5	274.3	243.8	229.4
75°	219.8	231.0	216.6	187.7	176.5
77.5°	174.9	182.9	163.6	136.4	128.3
80°	129.9	134.7	112.3	91.4	86.6
82.5°	88.2	88.2	64.2	49.7	44.9
85°	51.3	44.9	27.3	24.1	24.1
87.5°	17.6	11.2	11.2	11.2	11.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)