

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: P258852

Luminaire Tested: **14CZ-LD5-35-S-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258852
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-5700K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3400.0 lumens
Efficiency: N/A
Efficacy: 120.3 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

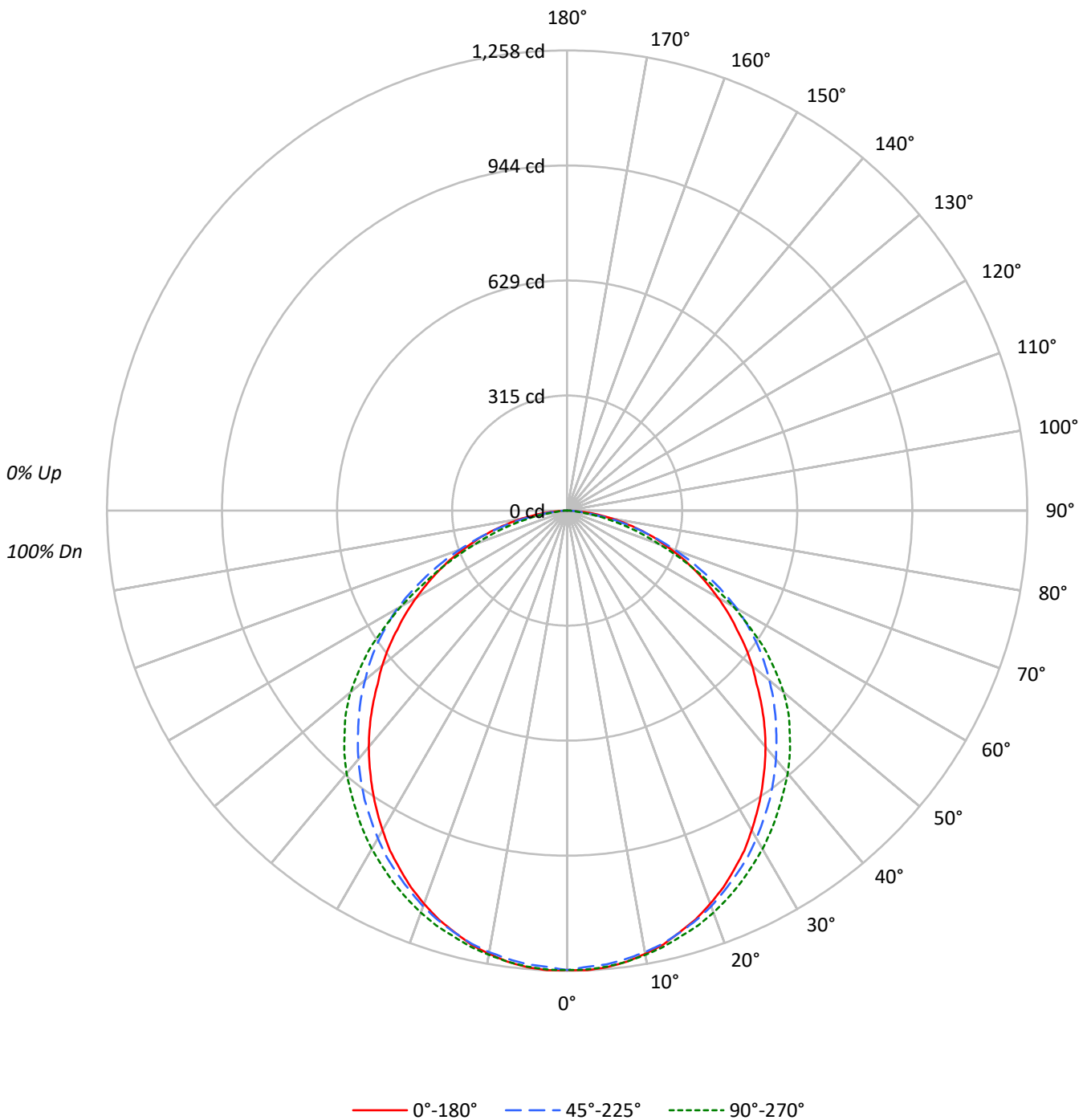
Input Watts (W): 28.272
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3380	3380	3380
5°	3384	3364	3380
10°	3362	3349	3370
15°	3322	3326	3356
20°	3275	3297	3349
25°	3212	3257	3333
30°	3135	3215	3319
35°	3051	3170	3300
40°	2964	3119	3294
45°	2860	3067	3275
50°	2766	3019	3235
55°	2658	2971	3092
60°	2560	2886	2821
65°	2450	2701	2479
70°	2312	2456	2098
75°	2158	2126	1733
80°	1901	1644	1268
85°	1497	797	701



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.7	3.5
10°-20°	338.1	9.9
20°-30°	507.4	14.9
30°-40°	604.9	17.8
40°-50°	623.1	18.3
50°-60°	555.3	16.3
60°-70°	400.1	11.8
70°-80°	209.3	6.2
80°-90°	43.3	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°	964.1	28.4
0°-40°	1569.0	46.1
0°-60°	2747.4	80.8
0°-90°	3400.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3400.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1256	1256	1256	1256	1256	
5°	1253	1250	1245	1253	1251	119
15°	1192	1194	1194	1206	1204	336
25°	1082	1088	1097	1118	1123	498
35°	929	941	965	997	1004	581
45°	752	768	806	851	860	580
55°	567	585	633	662	659	508
65°	385	398	424	404	389	381
75°	208	218	204	177	167	220
85°	48	42	26	23	23	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1256.0	1256.0	1256.0	1256.0	1256.0
2.5°	1257.5	1254.4	1248.4	1256.0	1256.0
5°	1252.9	1249.9	1245.4	1252.9	1251.4
7.5°	1243.8	1240.8	1236.3	1245.4	1243.8
10°	1230.2	1228.7	1225.7	1234.8	1233.2
12.5°	1215.1	1213.5	1212.0	1221.1	1221.1
15°	1192.3	1193.8	1193.8	1206.0	1204.5
17.5°	1171.1	1172.6	1174.1	1189.3	1189.3
20°	1143.8	1145.4	1151.4	1168.1	1169.6
22.5°	1115.1	1116.6	1124.2	1143.8	1146.9
25°	1081.7	1087.8	1096.9	1118.1	1122.6
27.5°	1048.4	1052.9	1068.1	1092.3	1095.4
30°	1009.0	1018.1	1034.8	1062.0	1068.1
32.5°	969.6	980.2	999.9	1030.2	1037.8
35°	928.7	940.8	965.1	996.9	1004.5
37.5°	886.3	896.9	927.2	960.5	971.1
40°	843.9	854.5	887.8	925.7	937.8
42.5°	798.4	813.6	846.9	889.3	901.4
45°	751.5	768.1	806.0	851.4	860.5
47.5°	703.0	721.2	765.1	810.5	821.1
50°	660.6	677.2	721.2	765.1	772.7
52.5°	615.1	630.3	678.7	715.1	716.6
55°	566.6	584.8	633.3	662.1	659.0
57.5°	522.7	537.8	584.8	600.0	590.9
60°	475.7	489.4	536.3	537.8	524.2
62.5°	430.3	443.9	480.3	469.7	453.0
65°	384.8	398.5	424.2	404.5	389.4
67.5°	340.9	353.0	368.2	342.4	327.2
70°	293.9	310.6	312.1	281.8	266.6
72.5°	253.0	262.1	259.1	230.3	216.6
75°	207.6	218.2	204.5	177.3	166.7
77.5°	165.1	172.7	154.5	128.8	121.2
80°	122.7	127.3	106.1	86.4	81.8
82.5°	83.3	83.3	60.6	47.0	42.4
85°	48.5	42.4	25.8	22.7	22.7
87.5°	16.7	10.6	10.6	10.6	10.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)