

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: P258685

Luminaire Tested: **14CZ-LD5-35-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P258685  
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-LD5-35-UNV-L92765-W2A1-U-6500K  
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS  
Light Source: (168) 90 CRI LEDS TUNED AT 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3355.0 lumens  
Efficiency: N/A  
Efficacy: 116.7 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

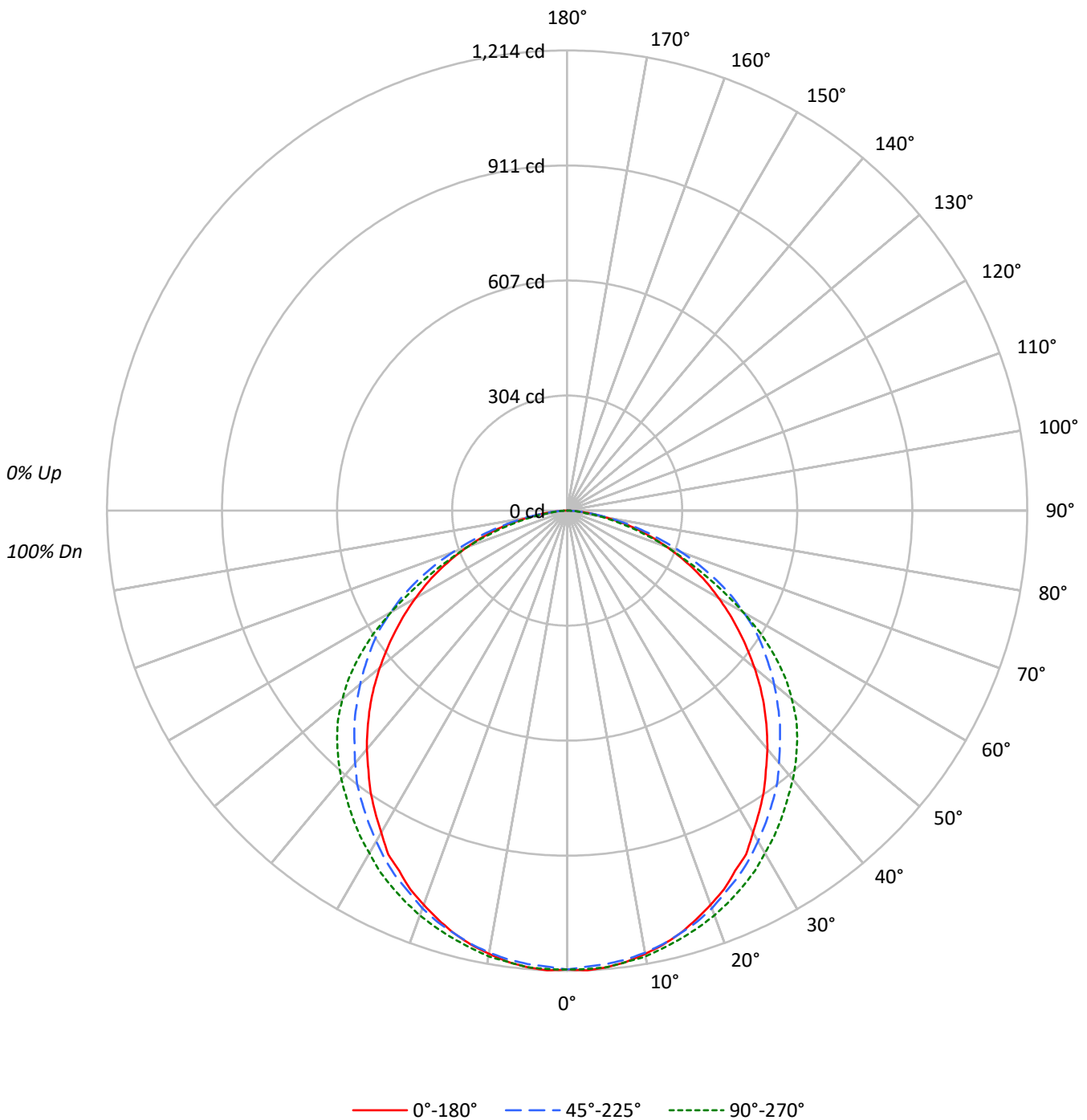
Input Watts (W): 28.737  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	3258	3258	3258
5°	3266	3244	3266
10°	3245	3236	3263
15°	3216	3216	3253
20°	3169	3197	3254
25°	3113	3168	3251
30°	3048	3130	3243
35°	2972	3097	3244
40°	2888	3056	3254
45°	2801	3021	3267
50°	2701	2984	3241
55°	2592	2957	3135
60°	2484	2893	2884
65°	2369	2770	2528
70°	2199	2525	2186
75°	1995	2201	1806
80°	1588	1743	1333
85°	1124	969	766



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	114.6	3.4
10°-20°	327.3	9.8
20°-30°	493.4	14.7
30°-40°	591.4	17.6
40°-50°	613.8	18.3
50°-60°	553.6	16.5
60°-70°	403.8	12.0
70°-80°	211.9	6.3
80°-90°	45.2	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°	935.2	27.9
0°-40°	1526.7	45.5
0°-60°	2694.1	80.3
0°-90°	3355.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3355.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1211	1211	1211	1211	1211	
5°	1209	1206	1201	1209	1209	115
15°	1154	1154	1154	1168	1168	325
25°	1049	1054	1067	1090	1095	484
35°	905	915	943	978	987	565
45°	736	751	794	842	858	567
55°	552	572	630	672	668	495
65°	372	394	435	418	397	368
75°	192	218	212	184	174	201
85°	36	45	31	26	25	46
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1210.7	1210.7	1210.7	1210.7	1210.7
2.5°	1214.0	1210.7	1204.1	1210.7	1210.7
5°	1209.1	1205.8	1200.8	1209.1	1209.1
7.5°	1200.8	1197.5	1194.2	1202.5	1200.8
10°	1187.6	1185.9	1184.3	1194.2	1194.2
12.5°	1172.7	1172.7	1171.0	1182.6	1181.0
15°	1154.5	1154.5	1154.5	1167.7	1167.7
17.5°	1131.3	1134.6	1137.9	1152.8	1152.8
20°	1106.5	1109.8	1116.4	1134.6	1136.3
22.5°	1081.7	1083.4	1090.0	1111.5	1116.4
25°	1048.6	1053.6	1066.8	1090.0	1094.9
27.5°	1022.2	1023.8	1038.7	1065.2	1071.8
30°	980.8	992.4	1007.3	1037.1	1043.7
32.5°	942.8	952.7	975.9	1007.3	1017.2
35°	904.7	914.7	942.8	977.5	987.4
37.5°	861.7	876.6	909.7	944.4	956.0
40°	822.0	835.3	870.0	913.0	926.2
42.5°	779.0	792.3	830.3	878.3	893.2
45°	736.0	750.9	793.9	841.9	858.4
47.5°	691.4	707.9	752.6	805.5	820.4
50°	645.1	663.3	712.9	767.5	774.1
52.5°	598.7	618.6	671.5	719.5	726.1
55°	552.4	572.3	630.2	671.5	668.2
57.5°	507.8	529.3	588.8	610.3	607.0
60°	461.5	484.6	537.5	547.5	535.9
62.5°	418.5	440.0	489.6	481.3	466.4
65°	372.1	393.7	435.0	418.5	397.0
67.5°	325.8	352.3	378.8	350.6	334.1
70°	279.5	309.3	320.9	292.8	277.9
72.5°	234.9	266.3	263.0	234.9	224.9
75°	191.9	218.3	211.7	183.6	173.7
77.5°	145.6	175.3	160.4	137.3	129.0
80°	102.5	129.0	112.5	92.6	86.0
82.5°	67.8	86.0	69.5	54.6	49.6
85°	36.4	44.7	31.4	26.5	24.8
87.5°	14.9	13.2	11.6	11.6	9.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)