

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: P258792

Luminaire Tested: **14CZ-LD5-35-S-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P258792  
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-3000K  
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS  
Light Source: (168) 80 CRI LEDS TUNED AT 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3404.0 lumens  
Efficiency: N/A  
Efficacy: 124.9 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

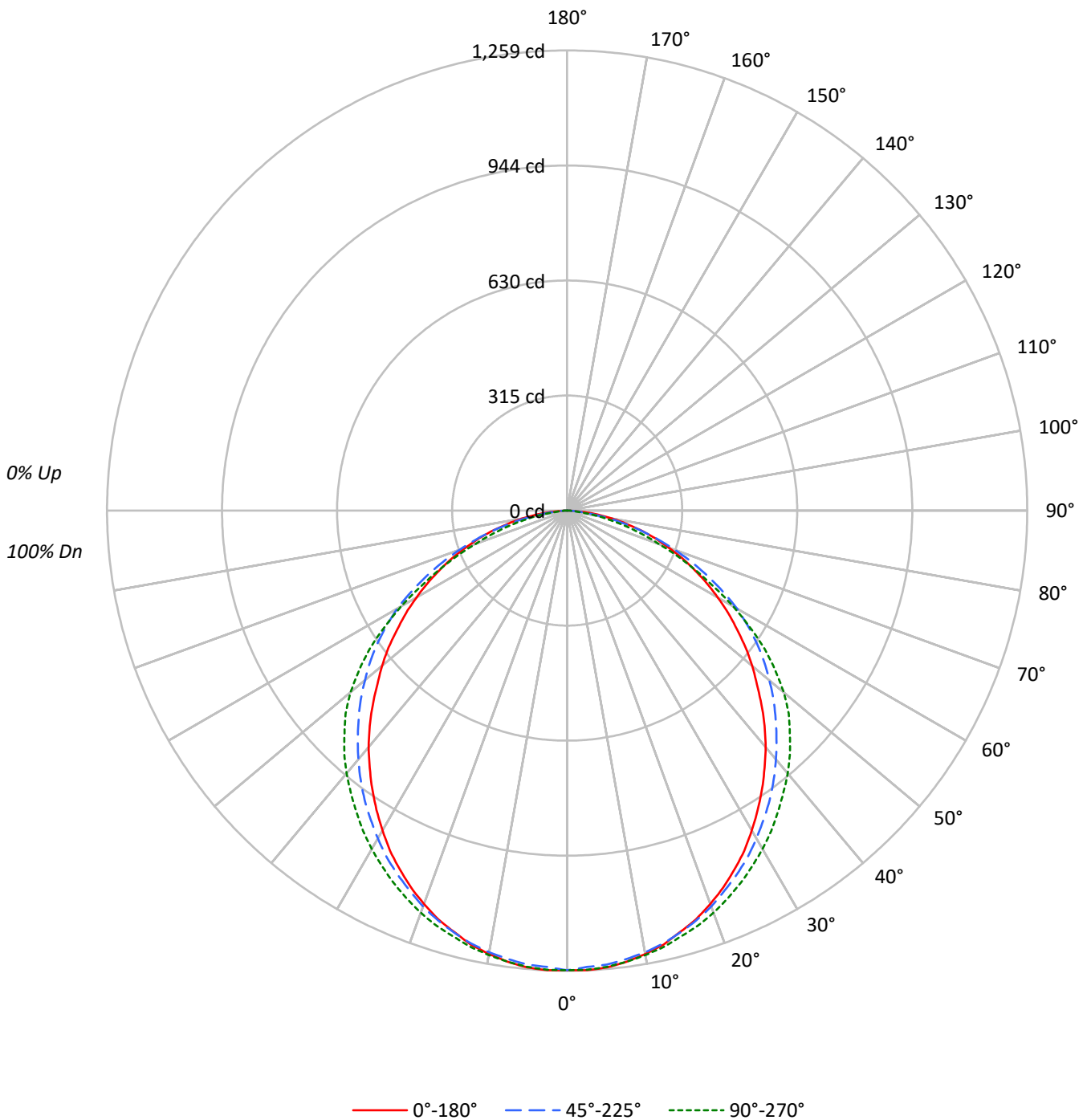
Input Watts (W): 27.249  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3384	3384	3384
5°	3388	3368	3384
10°	3366	3353	3374
15°	3326	3330	3360
20°	3279	3301	3353
25°	3216	3261	3337
30°	3139	3219	3323
35°	3054	3174	3303
40°	2968	3123	3298
45°	2863	3071	3279
50°	2768	3023	3239
55°	2662	2974	3096
60°	2563	2890	2824
65°	2453	2704	2482
70°	2316	2459	2101
75°	2161	2129	1734
80°	1905	1646	1269
85°	1497	797	704



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	118.8	3.5
10°-20°	338.5	9.9
20°-30°	508.0	14.9
30°-40°	605.6	17.8
40°-50°	623.8	18.3
50°-60°	555.9	16.3
60°-70°	400.6	11.8
70°-80°	209.5	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°	965.3	28.4
0°-40°	1570.9	46.1
0°-60°	2750.6	80.8
0°-90°	3404.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3404.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1257	1257	1257	1257	1257	
5°	1254	1251	1247	1254	1253	119
15°	1194	1195	1195	1207	1206	337
25°	1083	1089	1098	1119	1124	499
35°	930	942	966	998	1006	581
45°	752	769	807	852	862	581
55°	567	586	634	663	660	509
65°	385	399	425	405	390	382
75°	208	218	205	178	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°	1257.4	1257.4	1257.4	1257.4	1257.4
2.5°	1259.0	1255.9	1249.9	1257.4	1257.4
5°	1254.4	1251.4	1246.8	1254.4	1252.9
7.5°	1245.3	1242.3	1237.7	1246.8	1245.3
10°	1231.7	1230.1	1227.1	1236.2	1234.7
12.5°	1216.5	1215.0	1213.5	1222.6	1222.6
15°	1193.7	1195.2	1195.2	1207.4	1205.9
17.5°	1172.5	1174.0	1175.5	1190.7	1190.7
20°	1145.2	1146.7	1152.8	1169.5	1171.0
22.5°	1116.4	1117.9	1125.5	1145.2	1148.2
25°	1083.0	1089.1	1098.2	1119.4	1124.0
27.5°	1049.6	1054.2	1069.4	1093.6	1096.7
30°	1010.2	1019.3	1036.0	1063.3	1069.4
32.5°	970.8	981.4	1001.1	1031.4	1039.0
35°	929.8	941.9	966.2	998.1	1005.6
37.5°	887.3	898.0	928.3	961.7	972.3
40°	844.9	855.5	888.9	926.8	938.9
42.5°	799.4	814.5	847.9	890.4	902.5
45°	752.3	769.0	806.9	852.4	861.6
47.5°	703.8	722.0	766.0	811.5	822.1
50°	661.3	678.0	722.0	766.0	773.6
52.5°	615.8	631.0	679.5	715.9	717.5
55°	567.3	585.5	634.0	662.8	659.8
57.5°	523.3	538.5	585.5	600.7	591.6
60°	476.3	489.9	537.0	538.5	524.8
62.5°	430.8	444.4	480.8	470.2	453.5
65°	385.3	398.9	424.7	405.0	389.8
67.5°	341.3	353.4	368.6	342.8	327.6
70°	294.3	310.9	312.5	282.1	267.0
72.5°	253.3	262.4	259.4	230.6	216.9
75°	207.8	218.4	204.8	177.5	166.8
77.5°	165.3	172.9	154.7	128.9	121.3
80°	122.9	127.4	106.2	86.5	81.9
82.5°	83.4	83.4	60.7	47.0	42.5
85°	48.5	42.5	25.8	22.8	22.8
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)