

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: P258687

Luminaire Tested: **14CZ-LD5-39-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P258687  
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-LD5-39-UNV-L92765-W2A1-U-3000K  
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS  
Light Source: (168) 90 CRI LEDS TUNED AT 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3179.0 lumens  
Efficiency: N/A  
Efficacy: 103.6 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

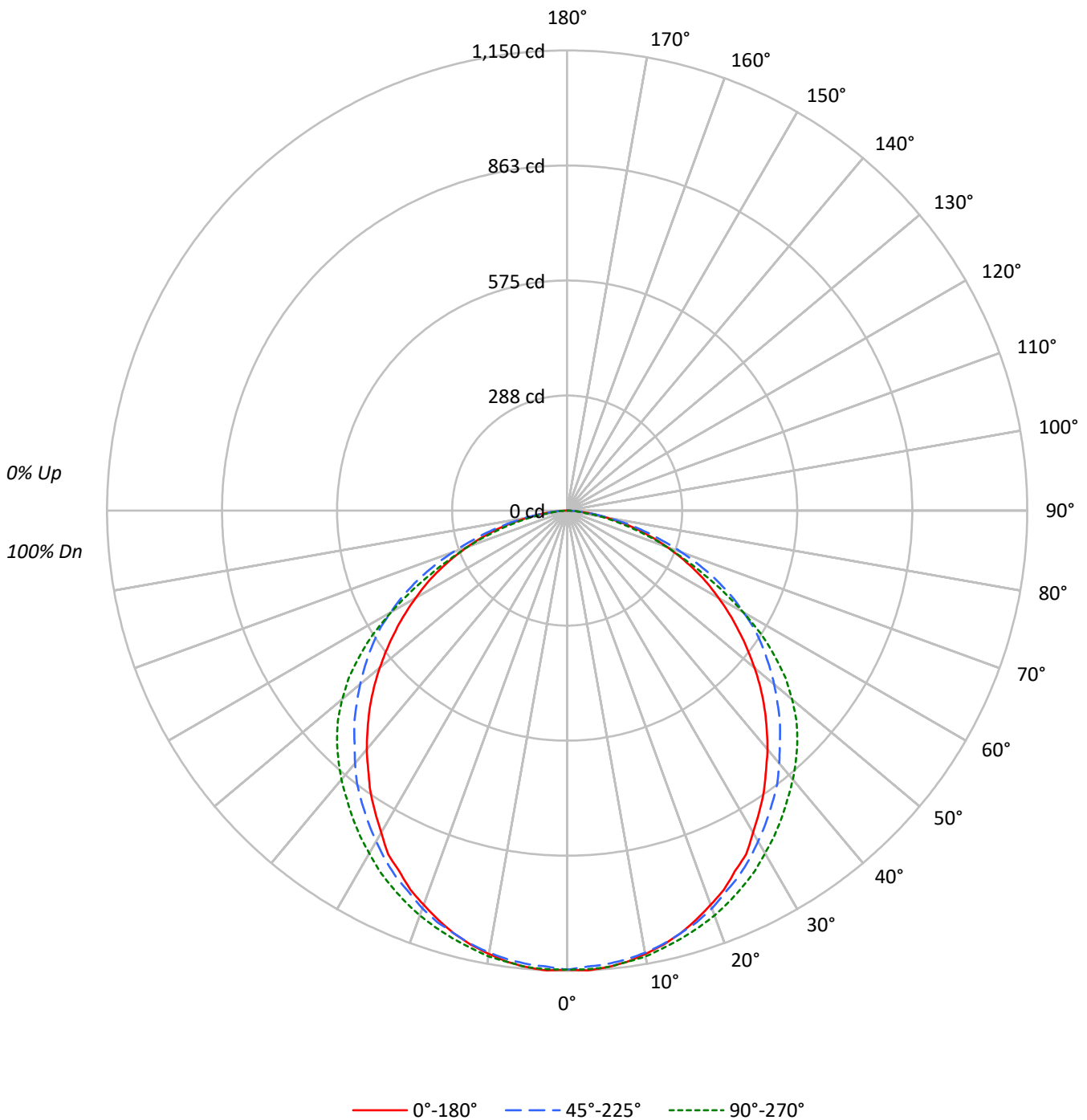
Input Watts (W): 30.69  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	3087	3087	3087
5°	3095	3073	3095
10°	3075	3066	3092
15°	3048	3048	3083
20°	3003	3029	3083
25°	2950	3002	3081
30°	2888	2966	3073
35°	2816	2935	3074
40°	2736	2896	3083
45°	2654	2863	3095
50°	2559	2828	3071
55°	2456	2801	2971
60°	2354	2741	2733
65°	2245	2625	2395
70°	2084	2392	2072
75°	1890	2086	1711
80°	1506	1652	1263
85°	1065	920	726



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	108.6	3.4
10°-20°	310.1	9.8
20°-30°	467.5	14.7
30°-40°	560.4	17.6
40°-50°	581.6	18.3
50°-60°	524.6	16.5
60°-70°	382.7	12.0
70°-80°	200.8	6.3
80°-90°	42.8	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°	886.2	27.9
0°-40°	1446.6	45.5
0°-60°	2552.8	80.3
0°-90°	3179.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3179.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1147	1147	1147	1147	1147	
5°	1146	1142	1138	1146	1146	109
15°	1094	1094	1094	1106	1106	308
25°	994	998	1011	1033	1038	459
35°	857	867	893	926	936	535
45°	697	712	752	798	813	538
55°	524	542	597	636	633	469
65°	353	373	412	396	376	349
75°	182	207	201	174	165	191
85°	34	42	30	25	24	44
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1147.2	1147.2	1147.2	1147.2	1147.2
2.5°	1150.3	1147.2	1140.9	1147.2	1147.2
5°	1145.6	1142.5	1137.8	1145.6	1145.6
7.5°	1137.8	1134.7	1131.5	1139.4	1137.8
10°	1125.3	1123.7	1122.1	1131.5	1131.5
12.5°	1111.2	1111.2	1109.6	1120.6	1119.0
15°	1093.9	1093.9	1093.9	1106.5	1106.5
17.5°	1072.0	1075.1	1078.3	1092.4	1092.4
20°	1048.5	1051.6	1057.9	1075.1	1076.7
22.5°	1025.0	1026.5	1032.8	1053.2	1057.9
25°	993.6	998.3	1010.9	1032.8	1037.5
27.5°	968.5	970.1	984.2	1009.3	1015.6
30°	929.4	940.3	954.4	982.7	988.9
32.5°	893.3	902.7	924.7	954.4	963.8
35°	857.3	866.7	893.3	926.2	935.6
37.5°	816.5	830.6	862.0	894.9	905.9
40°	778.9	791.5	824.4	865.1	877.6
42.5°	738.2	750.7	786.7	832.2	846.3
45°	697.4	711.5	752.3	797.7	813.4
47.5°	655.1	670.8	713.1	763.2	777.3
50°	611.2	628.5	675.5	727.2	733.5
52.5°	567.3	586.1	636.3	681.7	688.0
55°	523.5	542.3	597.1	636.3	633.2
57.5°	481.1	501.5	557.9	578.3	575.2
60°	437.3	459.2	509.3	518.8	507.8
62.5°	396.5	416.9	463.9	456.1	442.0
65°	352.6	373.0	412.2	396.5	376.1
67.5°	308.7	333.8	358.9	332.3	316.6
70°	264.9	293.1	304.0	277.4	263.3
72.5°	222.5	252.3	249.2	222.5	213.1
75°	181.8	206.9	200.6	174.0	164.6
77.5°	137.9	166.1	152.0	130.1	122.2
80°	97.2	122.2	106.6	87.8	81.5
82.5°	64.3	81.5	65.8	51.7	47.0
85°	34.5	42.3	29.8	25.1	23.5
87.5°	14.1	12.5	11.0	11.0	9.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)