

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: P258899

Luminaire Tested: **14CZ-LD5-44-RDP-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P258899  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35909)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14CZ-LD5-44-RDP-UNV-L83050-W2A1-U-4000K  
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (168) 80 CRI LEDS TUNED AT 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3071.0 lumens  
Efficiency: N/A  
Efficacy: 84.2 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.28 / 1.4  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

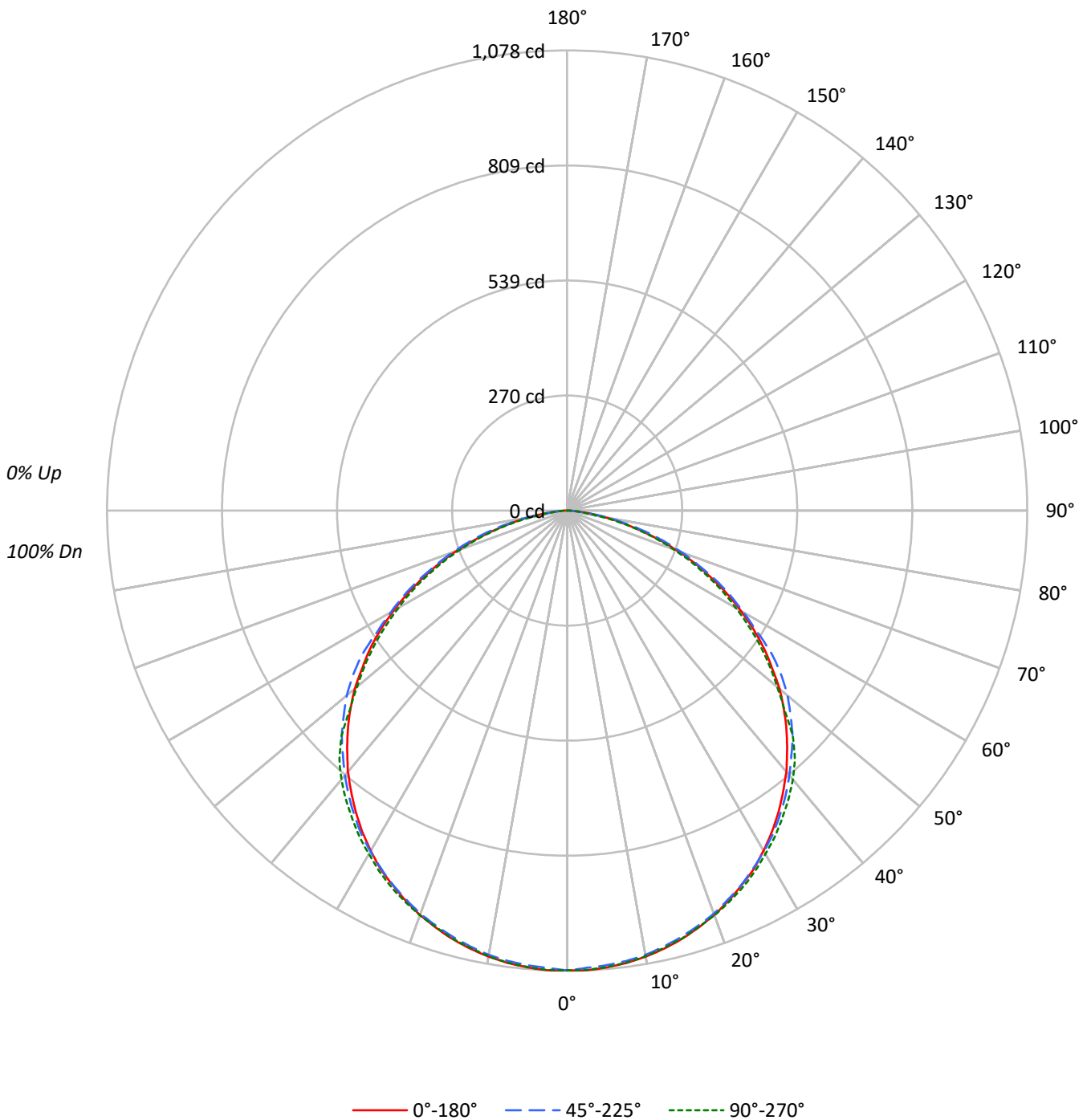
Input Watts (W): 36.456  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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					100			
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84					84			
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70					70			
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	61	59					59			
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	51					51			
5	76	63	54	48	74	62	54	47	60	53	47	58	51	46	56	50	46	44					44			
6	70	57	48	42	68	56	47	41	54	47	41	52	46	41	51	45	40	38					38			
7	65	52	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	34					34			
8	61	47	38	33	59	46	38	33	45	38	32	44	37	32	43	36	32	30					30			
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27					27			
10	53	40	32	27	52	39	32	26	38	31	26	37	31	26	36	30	26	24					24			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2898	2898	2898
5°	2901	2888	2898
10°	2899	2888	2896
15°	2895	2881	2892
20°	2886	2878	2889
25°	2874	2871	2892
30°	2858	2865	2886
35°	2834	2857	2887
40°	2806	2845	2890
45°	2766	2842	2845
50°	2719	2820	2690
55°	2644	2747	2592
60°	2532	2569	2456
65°	2371	2435	2307
70°	2158	2245	2087
75°	1801	1967	1770
80°	1427	1505	1226
85°	926	803	710



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	102.0	3.3
10°-20°	292.8	9.5
20°-30°	447.0	14.6
30°-40°	545.0	17.7
40°-50°	570.7	18.6
50°-60°	507.7	16.5
60°-70°	374.6	12.2
70°-80°	193.5	6.3
80°-90°	37.6	1.2
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°	841.8	27.4
0°-40°	1386.9	45.2
0°-60°	2465.3	80.3
0°-90°	3071.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3071.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1077	1077	1077	1077	1077	
5°	1074	1073	1069	1073	1073	102
15°	1039	1038	1034	1038	1038	293
25°	968	968	967	974	974	446
35°	863	864	870	880	879	540
45°	727	732	747	754	748	560
55°	564	576	586	560	552	502
65°	372	398	382	369	362	369
75°	173	191	189	174	170	187
85°	30	33	26	24	23	39
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1077.0	1077.0	1077.0	1077.0	1077.0
2.5°	1078.0	1077.0	1072.0	1077.0	1077.0
5°	1074.0	1073.0	1069.0	1073.0	1073.0
7.5°	1069.0	1068.0	1064.0	1068.0	1068.0
10°	1061.0	1060.0	1057.0	1061.0	1060.0
12.5°	1051.0	1051.0	1046.0	1051.0	1049.0
15°	1039.0	1038.0	1034.0	1038.0	1038.0
17.5°	1024.0	1023.0	1020.0	1025.0	1023.0
20°	1007.9	1006.9	1004.9	1009.9	1008.9
22.5°	988.9	988.9	985.9	991.9	991.9
25°	967.9	967.9	966.9	973.9	973.9
27.5°	946.9	944.9	944.9	951.9	952.9
30°	919.9	919.9	921.9	929.9	928.9
32.5°	892.8	893.8	897.8	904.8	905.9
35°	862.8	863.8	869.8	879.8	878.8
37.5°	830.8	833.8	840.8	851.8	851.8
40°	798.8	800.8	809.8	821.8	822.8
42.5°	762.7	767.7	777.7	791.7	789.7
45°	726.7	731.7	746.7	753.7	747.7
47.5°	688.6	694.7	709.7	710.7	690.6
50°	649.6	656.6	673.6	653.6	642.6
52.5°	604.6	617.6	632.6	604.6	597.6
55°	563.5	575.5	585.5	560.5	552.5
57.5°	517.5	533.5	526.5	514.5	504.5
60°	470.4	487.5	477.4	465.4	456.4
62.5°	422.4	441.4	431.4	419.4	411.4
65°	372.3	398.4	382.4	369.3	362.3
67.5°	325.3	350.3	331.3	321.3	314.3
70°	274.3	295.3	285.3	272.3	265.2
72.5°	224.2	240.2	237.2	223.2	218.2
75°	173.2	191.2	189.2	174.2	170.2
77.5°	130.1	147.1	141.1	129.1	124.1
80°	92.1	103.1	97.1	83.1	79.1
82.5°	56.1	65.1	55.1	47.0	43.0
85°	30.0	33.0	26.0	24.0	23.0
87.5°	11.0	11.0	11.0	10.0	10.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)