

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: P258985

Luminaire Tested: **14CZ-LD5-44-RDP-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P258985  
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-L82765-W2A1-U-6500K  
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (168) 80 CRI LEDS TUNED AT 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3057.0 lumens  
Efficiency: N/A  
Efficacy: 82.2 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

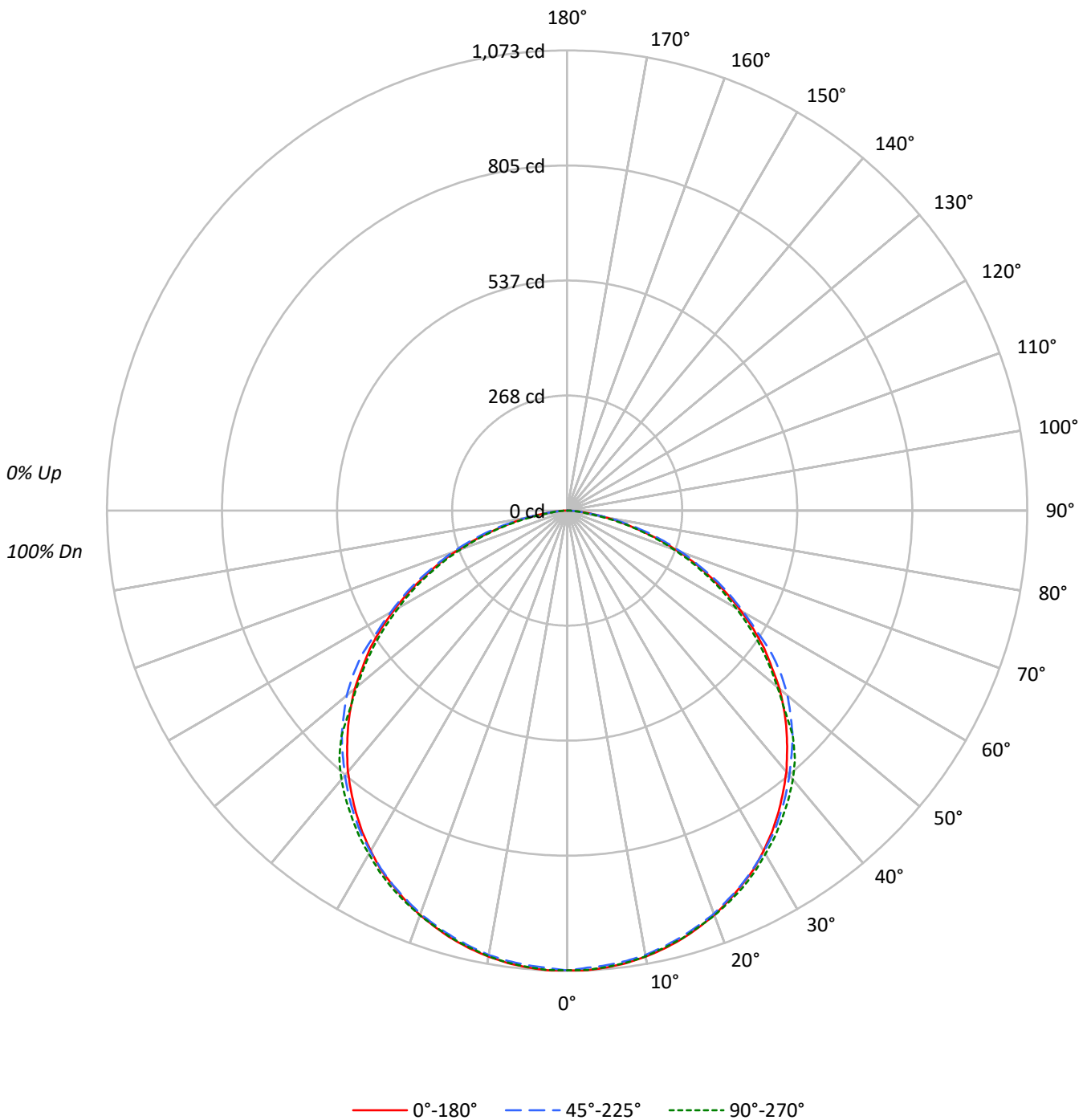
Input Watts (W): 37.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	65	88	78	71	65	75	69	64	73	67	63	70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	51
5	76	63	54	48	74	62	54	47	60	53	47	58	51	46	56	50	46	44
6	70	57	48	42	68	56	47	41	54	47	41	52	46	41	51	45	40	38
7	65	52	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	34
8	61	47	38	33	59	46	38	33	45	38	32	44	37	32	43	36	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	26	38	31	26	37	31	26	36	30	26	24

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

	0°	45°	90°
0°	2885	2885	2885
5°	2888	2874	2885
10°	2886	2875	2883
15°	2881	2868	2878
20°	2873	2865	2876
25°	2861	2858	2879
30°	2845	2852	2873
35°	2822	2845	2874
40°	2793	2832	2877
45°	2753	2829	2833
50°	2707	2807	2678
55°	2632	2735	2580
60°	2520	2558	2445
65°	2360	2423	2297
70°	2148	2234	2077
75°	1792	1958	1761
80°	1421	1497	1220
85°	923	800	707



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	101.5	3.3
10°-20°	291.5	9.5
20°-30°	445.0	14.6
30°-40°	542.6	17.7
40°-50°	568.1	18.6
50°-60°	505.4	16.5
60°-70°	372.9	12.2
70°-80°	192.7	6.3
80°-90°	37.4	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°	838.0	27.4
0°-40°	1380.6	45.2
0°-60°	2454.0	80.3
0°-90°	3057.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3057.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1072	1072	1072	1072	1072	
5°	1069	1068	1064	1068	1068	102
15°	1034	1033	1029	1033	1033	292
25°	964	964	962	970	970	444
35°	859	860	866	876	875	537
45°	723	728	743	750	744	558
55°	561	573	583	558	550	500
65°	371	397	381	368	361	367
75°	172	190	188	173	169	186
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°	1072.1	1072.1	1072.1	1072.1	1072.1
2.5°	1073.1	1072.1	1067.1	1072.1	1072.1
5°	1069.1	1068.1	1064.1	1068.1	1068.1
7.5°	1064.1	1063.1	1059.1	1063.1	1063.1
10°	1056.2	1055.2	1052.2	1056.2	1055.2
12.5°	1046.2	1046.2	1041.2	1046.2	1044.2
15°	1034.2	1033.2	1029.3	1033.2	1033.2
17.5°	1019.3	1018.3	1015.3	1020.3	1018.3
20°	1003.4	1002.4	1000.4	1005.3	1004.3
22.5°	984.4	984.4	981.4	987.4	987.4
25°	963.5	963.5	962.5	969.5	969.5
27.5°	942.6	940.6	940.6	947.6	948.6
30°	915.7	915.7	917.7	925.6	924.6
32.5°	888.8	889.8	893.8	900.7	901.7
35°	858.9	859.9	865.9	875.8	874.8
37.5°	827.0	830.0	837.0	847.9	847.9
40°	795.1	797.1	806.1	818.0	819.0
42.5°	759.2	764.2	774.2	788.1	786.1
45°	723.4	728.4	743.3	750.3	744.3
47.5°	685.5	691.5	706.4	707.4	687.5
50°	646.6	653.6	670.6	650.6	639.7
52.5°	601.8	614.8	629.7	601.8	594.8
55°	561.0	572.9	582.9	558.0	550.0
57.5°	515.1	531.1	524.1	512.1	502.2
60°	468.3	485.2	475.3	463.3	454.3
62.5°	420.5	439.4	429.4	417.5	409.5
65°	370.7	396.6	380.6	367.7	360.7
67.5°	323.8	348.7	329.8	319.8	312.9
70°	273.0	293.9	284.0	271.0	264.0
72.5°	223.2	239.1	236.1	222.2	217.2
75°	172.4	190.3	188.3	173.4	169.4
77.5°	129.5	146.5	140.5	128.5	123.6
80°	91.7	102.6	96.6	82.7	78.7
82.5°	55.8	64.8	54.8	46.8	42.8
85°	29.9	32.9	25.9	23.9	22.9
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)