

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: P258980

Luminaire Tested: **14CZ-LD5-44-RDP-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258980
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-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: 2919.0 lumens
Efficiency: N/A
Efficacy: 81.1 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

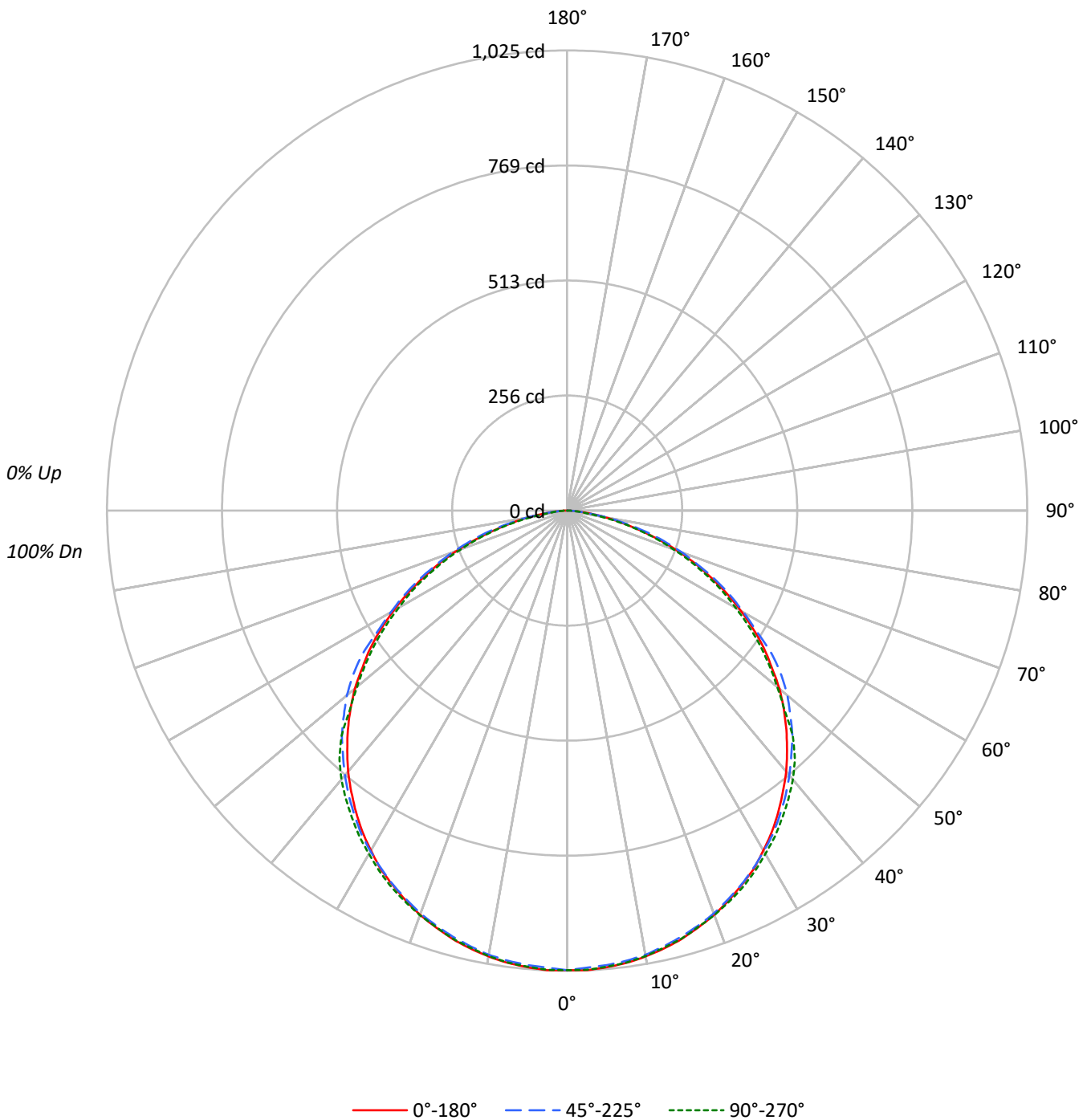
Input Watts (W): 35.991
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2755	2755	2755
5°	2758	2745	2755
10°	2756	2745	2753
15°	2751	2738	2749
20°	2744	2735	2746
25°	2732	2729	2749
30°	2717	2723	2743
35°	2694	2716	2744
40°	2667	2704	2747
45°	2629	2701	2705
50°	2585	2681	2557
55°	2513	2611	2464
60°	2407	2442	2335
65°	2253	2314	2193
70°	2051	2133	1983
75°	1711	1869	1681
80°	1356	1430	1165
85°	880	763	676



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.9	3.3
10°-20°	278.4	9.5
20°-30°	424.9	14.6
30°-40°	518.1	17.7
40°-50°	542.4	18.6
50°-60°	482.6	16.5
60°-70°	356.0	12.2
70°-80°	184.0	6.3
80°-90°	35.7	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°	800.2	27.4
0°-40°	1318.2	45.2
0°-60°	2343.2	80.3
0°-90°	2919.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2919.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1024	1024	1024	1024	1024	
5°	1021	1020	1016	1020	1020	97
15°	988	987	983	987	987	279
25°	920	920	919	926	926	424
35°	820	821	827	836	835	513
45°	691	696	710	716	711	533
55°	536	547	557	533	525	477
65°	354	379	363	351	344	351
75°	165	182	180	166	162	178
85°	28	31	25	23	22	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1023.7	1023.7	1023.7	1023.7	1023.7
2.5°	1024.7	1023.7	1018.9	1023.7	1023.7
5°	1020.9	1019.9	1016.1	1019.9	1019.9
7.5°	1016.1	1015.1	1011.3	1015.1	1015.1
10°	1008.5	1007.5	1004.7	1008.5	1007.5
12.5°	999.0	999.0	994.2	999.0	997.1
15°	987.6	986.6	982.8	986.6	986.6
17.5°	973.3	972.3	969.5	974.2	972.3
20°	958.1	957.1	955.2	960.0	959.0
22.5°	940.0	940.0	937.1	942.8	942.8
25°	920.0	920.0	919.1	925.7	925.7
27.5°	900.0	898.1	898.1	904.8	905.7
30°	874.3	874.3	876.2	883.8	882.9
32.5°	848.6	849.6	853.4	860.1	861.0
35°	820.1	821.1	826.8	836.3	835.3
37.5°	789.7	792.5	799.2	809.6	809.6
40°	759.2	761.1	769.7	781.1	782.0
42.5°	725.0	729.7	739.2	752.6	750.7
45°	690.7	695.5	709.7	716.4	710.7
47.5°	654.6	660.3	674.5	675.5	656.5
50°	617.5	624.1	640.3	621.3	610.8
52.5°	574.6	587.0	601.3	574.6	568.0
55°	535.6	547.1	556.6	532.8	525.2
57.5°	491.9	507.1	500.4	489.0	479.5
60°	447.2	463.3	453.8	442.4	433.8
62.5°	401.5	419.6	410.1	398.6	391.0
65°	353.9	378.7	363.4	351.1	344.4
67.5°	309.2	333.0	314.9	305.4	298.7
70°	260.7	280.7	271.1	258.8	252.1
72.5°	213.1	228.3	225.5	212.2	207.4
75°	164.6	181.7	179.8	165.5	161.7
77.5°	123.7	139.9	134.1	122.7	118.0
80°	87.5	98.0	92.3	79.0	75.2
82.5°	53.3	61.8	52.3	44.7	40.9
85°	28.5	31.4	24.7	22.8	21.9
87.5°	10.5	10.5	10.5	9.5	9.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)