

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: P258981

Luminaire Tested: **14CZ-LD5-44-RDP-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258981
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-4500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2971.0 lumens
Efficiency: N/A
Efficacy: 81.9 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

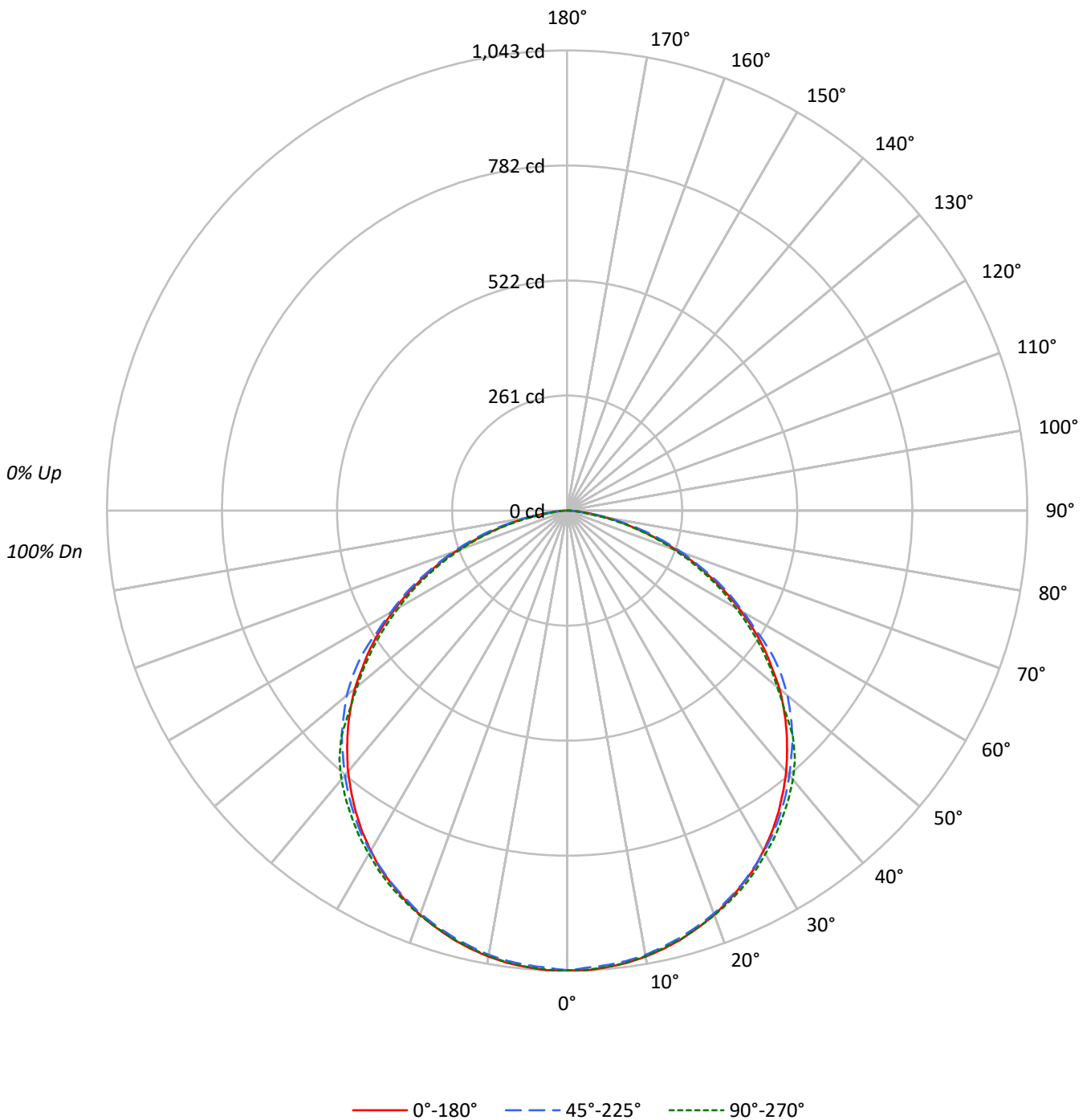
Input Watts (W): 36.27
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2804	2804	2804
5°	2807	2794	2804
10°	2805	2794	2802
15°	2800	2787	2798
20°	2792	2784	2795
25°	2780	2777	2798
30°	2765	2771	2792
35°	2742	2764	2793
40°	2714	2752	2796
45°	2675	2749	2753
50°	2631	2728	2603
55°	2558	2658	2508
60°	2449	2486	2377
65°	2294	2355	2232
70°	2087	2172	2019
75°	1742	1903	1711
80°	1381	1455	1185
85°	898	778	689



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.6	3.3
10°-20°	283.3	9.5
20°-30°	432.5	14.6
30°-40°	527.3	17.7
40°-50°	552.1	18.6
50°-60°	491.2	16.5
60°-70°	362.4	12.2
70°-80°	187.2	6.3
80°-90°	36.4	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°	814.4	27.4
0°-40°	1341.7	45.2
0°-60°	2385.0	80.3
0°-90°	2971.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2971.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1042	1042	1042	1042	1042	
5°	1039	1038	1034	1038	1038	99
15°	1005	1004	1000	1004	1004	284
25°	936	936	935	942	942	432
35°	835	836	842	851	850	522
45°	703	708	722	729	723	542
55°	545	557	566	542	534	486
65°	360	385	370	357	350	357
75°	168	185	183	168	165	181
85°	29	32	25	23	22	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1041.9	1041.9	1041.9	1041.9	1041.9
2.5°	1042.9	1041.9	1037.1	1041.9	1041.9
5°	1039.0	1038.1	1034.2	1038.1	1038.1
7.5°	1034.2	1033.2	1029.4	1033.2	1033.2
10°	1026.4	1025.5	1022.6	1026.4	1025.5
12.5°	1016.8	1016.8	1011.9	1016.8	1014.8
15°	1005.1	1004.2	1000.3	1004.2	1004.2
17.5°	990.6	989.7	986.7	991.6	989.7
20°	975.1	974.2	972.2	977.1	976.1
22.5°	956.7	956.7	953.8	959.6	959.6
25°	936.4	936.4	935.4	942.2	942.2
27.5°	916.1	914.1	914.1	920.9	921.9
30°	889.9	889.9	891.8	899.6	898.6
32.5°	863.8	864.7	868.6	875.4	876.4
35°	834.7	835.7	841.5	851.2	850.2
37.5°	803.7	806.6	813.4	824.1	824.1
40°	772.7	774.7	783.4	795.0	796.0
42.5°	737.9	742.7	752.4	766.0	764.0
45°	703.0	707.9	722.4	729.2	723.4
47.5°	666.2	672.0	686.6	687.5	668.2
50°	628.5	635.2	651.7	632.3	621.7
52.5°	584.9	597.5	612.0	584.9	578.1
55°	545.2	556.8	566.5	542.3	534.5
57.5°	500.6	516.1	509.4	497.7	488.0
60°	455.1	471.6	461.9	450.3	441.6
62.5°	408.6	427.0	417.4	405.7	398.0
65°	360.2	385.4	369.9	357.3	350.5
67.5°	314.7	338.9	320.5	310.8	304.1
70°	265.3	285.7	276.0	263.4	256.6
72.5°	216.9	232.4	229.5	215.9	211.1
75°	167.5	185.0	183.0	168.5	164.6
77.5°	125.9	142.3	136.5	124.9	120.1
80°	89.1	99.7	93.9	80.4	76.5
82.5°	54.2	62.9	53.3	45.5	41.6
85°	29.1	32.0	25.2	23.2	22.3
87.5°	10.7	10.7	10.7	9.7	9.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)