

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: P258678

Luminaire Tested: **14CZ-LD5-35-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258678
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-LD5-35-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: 2880.0 lumens
Efficiency: N/A
Efficacy: 106.1 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

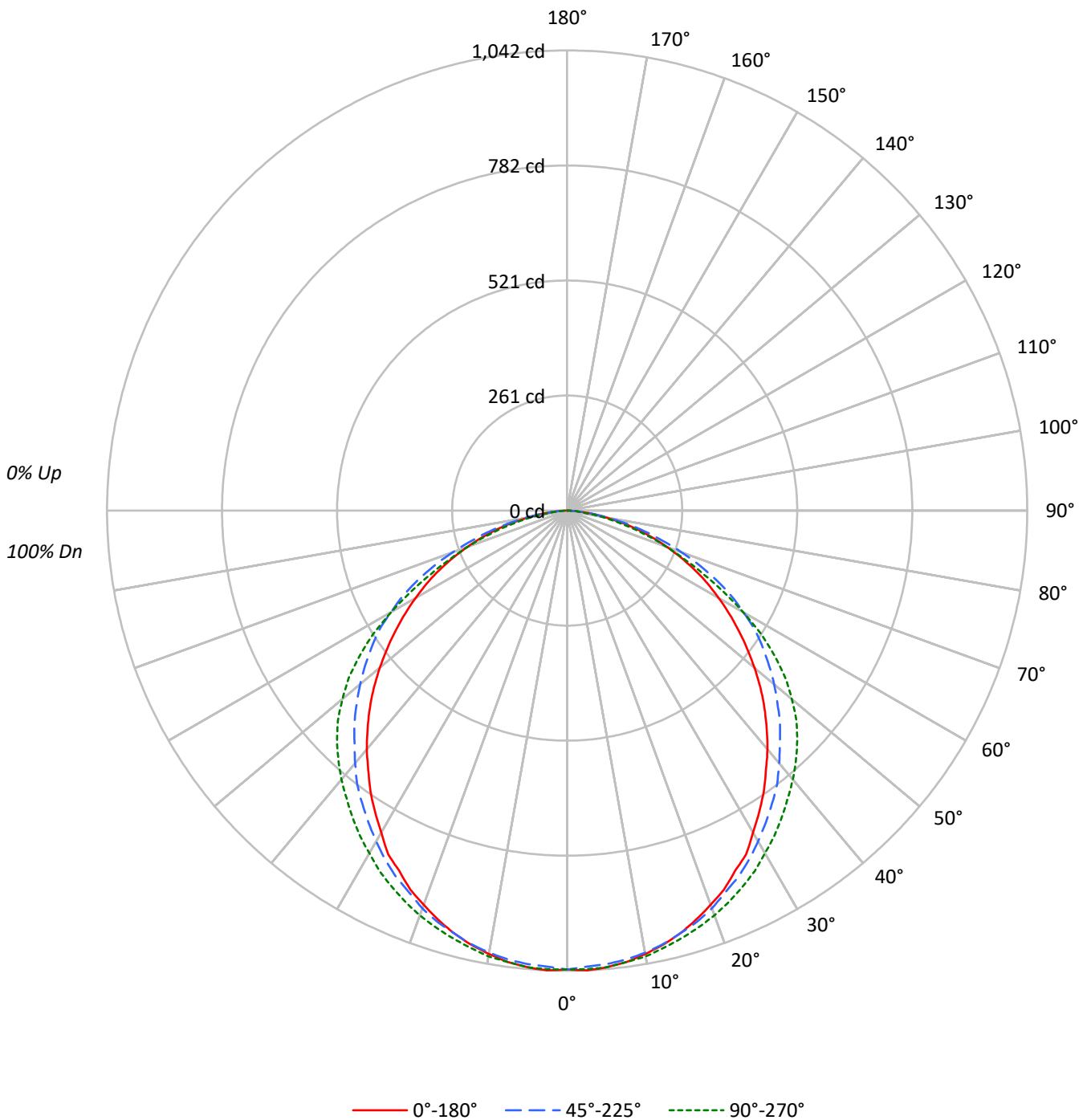
Input Watts (W): 27.156
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2797	2797	2797
5°	2804	2784	2804
10°	2786	2778	2801
15°	2761	2761	2793
20°	2720	2745	2793
25°	2673	2719	2791
30°	2616	2687	2784
35°	2551	2659	2784
40°	2479	2623	2793
45°	2404	2594	2804
50°	2318	2562	2782
55°	2225	2538	2691
60°	2132	2483	2476
65°	2034	2378	2170
70°	1888	2167	1876
75°	1712	1889	1550
80°	1364	1495	1144
85°	963	834	658



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.3	3.4
10°-20°	280.9	9.8
20°-30°	423.6	14.7
30°-40°	507.7	17.6
40°-50°	526.9	18.3
50°-60°	475.2	16.5
60°-70°	346.7	12.0
70°-80°	181.9	6.3
80°-90°	38.8	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°	802.8	27.9
0°-40°	1310.5	45.5
0°-60°	2312.7	80.3
0°-90°	2880.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2880.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1039	1039	1039	1039	1039	
5°	1038	1035	1031	1038	1038	98
15°	991	991	991	1002	1002	279
25°	900	904	916	936	940	415
35°	777	785	809	839	848	485
45°	632	645	682	723	737	487
55°	474	491	541	576	574	425
65°	320	338	373	359	341	316
75°	165	187	182	158	149	173
85°	31	38	27	23	21	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1039.3	1039.3	1039.3	1039.3	1039.3
2.5°	1042.2	1039.3	1033.6	1039.3	1039.3
5°	1037.9	1035.1	1030.8	1037.9	1037.9
7.5°	1030.8	1028.0	1025.1	1032.2	1030.8
10°	1019.4	1018.0	1016.6	1025.1	1025.1
12.5°	1006.7	1006.7	1005.2	1015.2	1013.8
15°	991.0	991.0	991.0	1002.4	1002.4
17.5°	971.2	974.0	976.8	989.6	989.6
20°	949.9	952.7	958.4	974.0	975.4
22.5°	928.6	930.0	935.7	954.1	958.4
25°	900.2	904.4	915.8	935.7	939.9
27.5°	877.5	878.9	891.6	914.4	920.0
30°	842.0	851.9	864.7	890.2	895.9
32.5°	809.3	817.8	837.7	864.7	873.2
35°	776.6	785.2	809.3	839.1	847.6
37.5°	739.7	752.5	780.9	810.7	820.7
40°	705.7	717.0	746.8	783.7	795.1
42.5°	668.7	680.1	712.8	753.9	766.7
45°	631.8	644.6	681.5	722.7	736.9
47.5°	593.5	607.7	646.0	691.5	704.2
50°	553.7	569.3	611.9	658.8	664.5
52.5°	514.0	531.0	576.4	617.6	623.3
55°	474.2	491.3	541.0	576.4	573.6
57.5°	435.9	454.3	505.5	523.9	521.1
60°	396.1	416.0	461.4	470.0	460.0
62.5°	359.2	377.7	420.3	413.2	400.4
65°	319.5	337.9	373.4	359.2	340.8
67.5°	279.7	302.4	325.1	301.0	286.8
70°	240.0	265.5	275.4	251.3	238.5
72.5°	201.6	228.6	225.8	201.6	193.1
75°	164.7	187.4	181.7	157.6	149.1
77.5°	124.9	150.5	137.7	117.8	110.7
80°	88.0	110.7	96.5	79.5	73.8
82.5°	58.2	73.8	59.6	46.9	42.6
85°	31.2	38.3	27.0	22.7	21.3
87.5°	12.8	11.4	9.9	9.9	8.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)