

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: P275530

Luminaire Tested: **14CZ2-35-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275530
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-49)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-35-UNV-L92765-W2A1-U-3000K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2840.0 lumens
Efficiency: N/A
Efficacy: 104.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

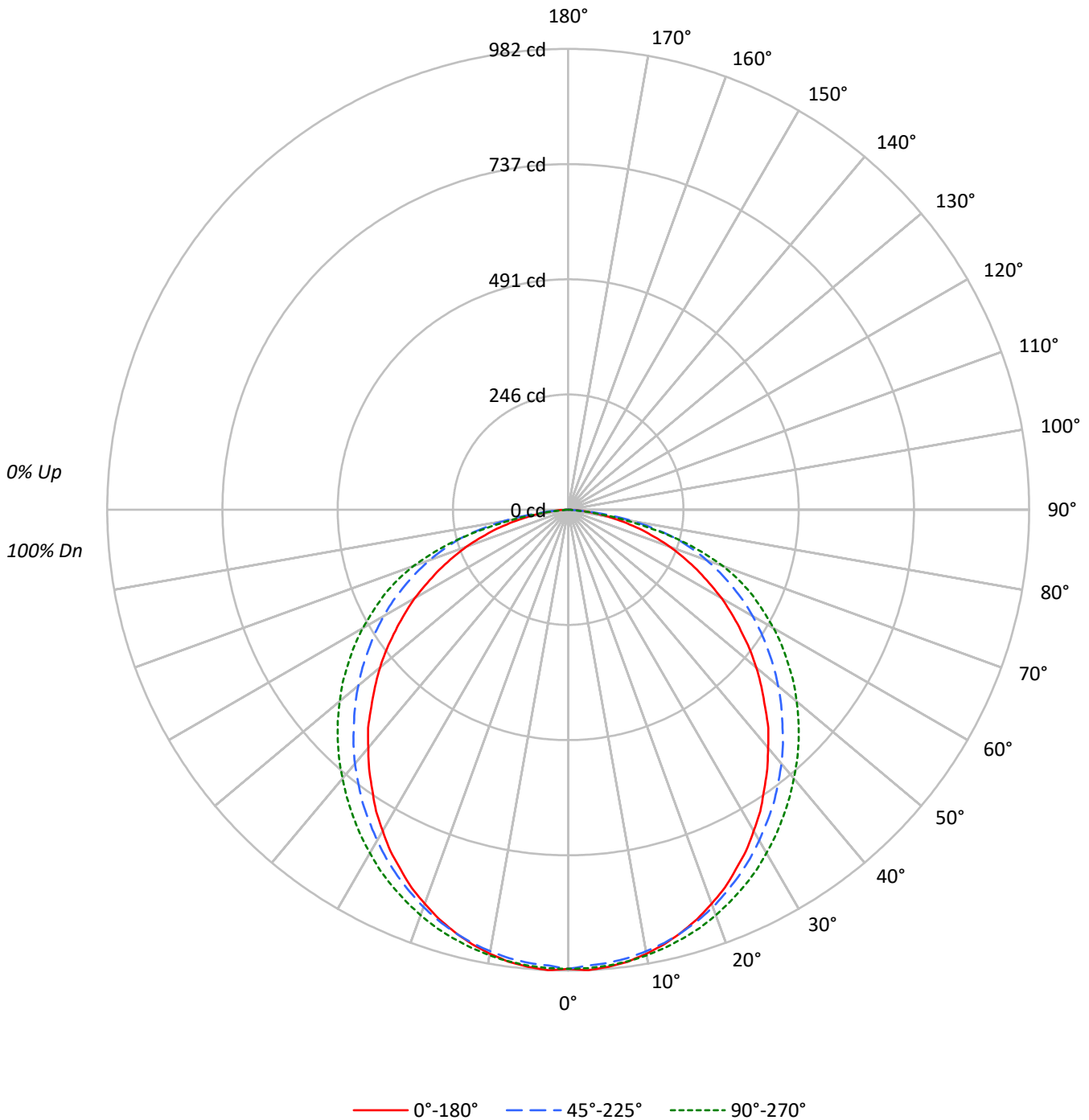
Input Watts (W): 27.156
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	37	30	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2633	2633	2633
5°	2641	2619	2634
10°	2625	2611	2635
15°	2597	2599	2634
20°	2559	2580	2633
25°	2510	2555	2630
30°	2456	2528	2625
35°	2390	2507	2623
40°	2327	2483	2627
45°	2256	2456	2641
50°	2190	2444	2659
55°	2107	2436	2683
60°	2031	2440	2720
65°	1927	2448	2762
70°	1809	2467	2760
75°	1640	2489	2495
80°	1345	2149	1776
85°	997	1016	411



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.6	3.3
10°-20°	264.5	9.3
20°-30°	398.4	14.0
30°-40°	478.1	16.8
40°-50°	498.3	17.5
50°-60°	461.3	16.2
60°-70°	372.7	13.1
70°-80°	227.2	8.0
80°-90°	46.9	1.7
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°	755.4	26.6
0°-40°	1233.5	43.4
0°-60°	2193.1	77.2
0°-90°	2840.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2840.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	978	978	978	978	978	
5°	978	975	970	976	975	93
15°	932	933	933	946	946	263
25°	845	850	861	882	886	390
35°	728	739	763	791	798	456
45°	593	610	645	681	694	458
55°	449	472	519	560	572	402
65°	303	332	384	423	434	299
75°	158	192	239	243	240	166
85°	32	48	33	18	13	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	978.4	978.4	978.4	978.4	978.4
2.5°	982.2	979.0	972.1	979.0	977.8
5°	977.8	975.2	969.5	976.5	975.2
7.5°	971.4	968.9	963.8	972.1	970.8
10°	960.7	959.4	955.6	965.1	964.5
12.5°	948.0	947.4	945.5	956.2	955.6
15°	932.2	932.8	932.8	945.5	945.5
17.5°	914.4	915.7	918.2	932.2	934.1
20°	893.5	896.1	901.1	917.0	919.5
22.5°	872.0	873.9	881.5	900.5	903.0
25°	845.4	850.5	860.6	882.1	885.9
27.5°	820.1	824.5	838.4	860.6	866.9
30°	790.3	797.3	813.7	837.8	844.8
32.5°	761.8	769.4	788.4	816.3	822.6
35°	727.6	739.0	763.1	790.9	798.5
37.5°	696.6	707.4	734.6	765.0	773.8
40°	662.4	675.7	706.7	739.0	747.9
42.5°	630.7	643.4	677.0	709.9	721.9
45°	592.7	610.5	645.3	681.4	694.1
47.5°	557.9	575.6	615.5	654.2	665.6
50°	523.1	542.1	583.9	623.8	635.2
52.5°	487.0	507.2	552.2	592.1	605.4
55°	449.0	472.4	519.3	559.8	571.8
57.5°	412.9	437.0	487.0	528.1	540.2
60°	377.4	402.1	453.4	492.7	505.3
62.5°	338.2	367.3	420.5	459.1	468.6
65°	302.7	332.5	384.4	423.0	433.8
67.5°	265.3	297.6	349.6	385.0	395.2
70°	229.9	263.4	313.5	346.4	350.8
72.5°	191.9	226.1	276.7	297.6	297.6
75°	157.7	192.5	239.4	243.2	240.0
77.5°	120.3	158.9	189.3	181.7	174.1
80°	86.8	124.8	138.7	124.8	114.6
82.5°	58.3	90.6	83.6	66.5	58.9
85°	32.3	48.1	32.9	18.4	13.3
87.5°	12.0	10.8	3.2	3.2	3.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)