

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: P275834

Luminaire Tested: **14CZ2-44-RDP-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275834
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-43)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-44-RDP-UNV-L82765-W2A1-U-5000K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2841.0 lumens
Efficiency: N/A
Efficacy: 77.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

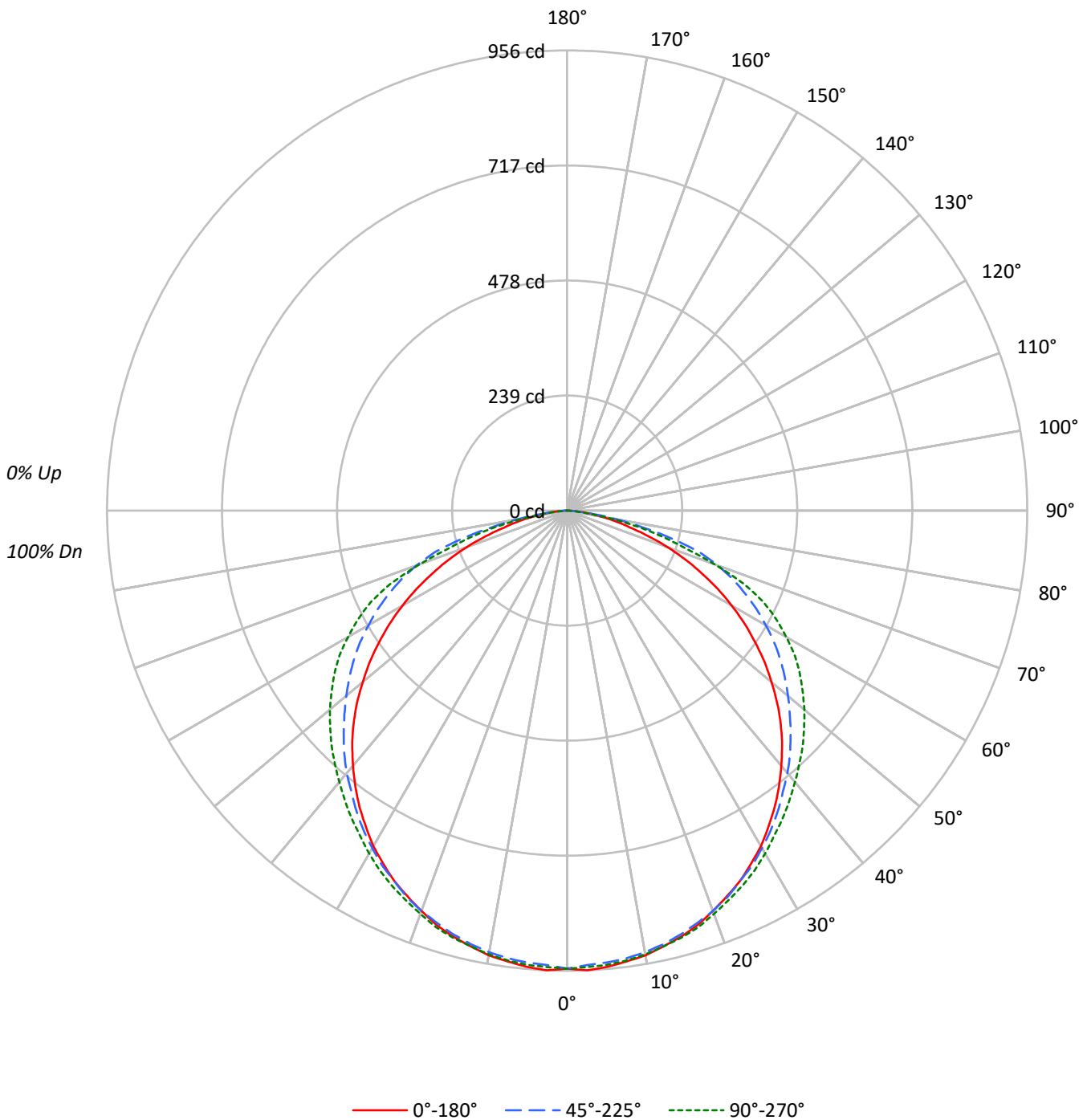
Input Watts (W): 36.456
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	94	97	94	91	93	91	88	90	88	86	84
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	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	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2560	2560	2560
5°	2570	2546	2558
10°	2564	2546	2558
15°	2552	2540	2558
20°	2534	2534	2553
25°	2522	2522	2555
30°	2502	2516	2557
35°	2470	2507	2565
40°	2431	2501	2587
45°	2389	2498	2633
50°	2321	2507	2693
55°	2237	2539	2768
60°	2125	2567	2829
65°	1963	2599	2867
70°	1745	2618	2565
75°	1407	2352	2052
80°	1100	1650	1340
85°	753	479	343



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.1	3.2
10°-20°	258.4	9.1
20°-30°	393.5	13.8
30°-40°	479.2	16.9
40°-50°	508.4	17.9
50°-60°	479.8	16.9
60°-70°	387.4	13.6
70°-80°	210.2	7.4
80°-90°	34.0	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°	741.9	26.1
0°-40°	1221.1	43.0
0°-60°	2209.4	77.8
0°-90°	2841.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2841.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	952	952	952	952	952	
5°	952	949	943	949	947	90
15°	916	914	912	918	918	258
25°	850	847	850	858	861	391
35°	752	756	763	778	781	470
45°	628	637	656	681	692	483
55°	477	497	541	577	590	426
65°	308	346	408	441	450	306
75°	135	197	226	204	197	148
85°	24	27	16	13	11	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	951.5	951.5	951.5	951.5	951.5
2.5°	956.0	951.5	944.9	951.5	949.3
5°	951.5	949.3	942.7	949.3	947.1
7.5°	944.9	944.9	938.2	942.7	942.7
10°	938.2	936.0	931.6	938.2	936.0
12.5°	927.1	924.9	922.7	929.3	927.1
15°	916.0	913.8	911.6	918.3	918.3
17.5°	902.7	900.5	898.3	907.2	907.2
20°	885.0	885.0	885.0	893.9	891.6
22.5°	867.2	867.2	869.5	878.3	876.1
25°	849.5	847.3	849.5	858.4	860.6
27.5°	827.3	829.5	831.8	840.6	842.8
30°	805.1	807.4	809.6	820.7	822.9
32.5°	778.5	783.0	787.4	800.7	800.7
35°	751.9	756.3	763.0	778.5	780.7
37.5°	723.1	727.5	736.4	754.1	758.6
40°	692.0	698.7	712.0	729.7	736.4
42.5°	661.0	669.8	685.4	705.3	714.2
45°	627.7	636.6	656.5	680.9	692.0
47.5°	592.2	603.3	627.7	658.7	667.6
50°	554.5	570.0	598.9	632.1	643.2
52.5°	516.8	534.5	570.0	605.5	616.6
55°	476.9	496.8	541.2	576.7	590.0
57.5°	436.9	459.1	510.1	547.8	561.2
60°	394.8	421.4	476.9	514.6	525.7
62.5°	352.7	383.7	443.6	481.3	490.2
65°	308.3	346.0	408.1	441.4	450.3
67.5°	266.2	310.5	372.6	397.0	397.0
70°	221.8	270.6	332.7	339.4	326.0
72.5°	177.4	232.9	288.3	263.9	252.9
75°	135.3	197.4	226.2	204.1	197.4
77.5°	102.0	159.7	159.7	146.4	142.0
80°	71.0	122.0	106.5	93.2	86.5
82.5°	46.6	68.8	55.5	44.4	37.7
85°	24.4	26.6	15.5	13.3	11.1
87.5°	8.9	4.4	2.2	4.4	2.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)