

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: P275835

Luminaire Tested: **14CZ2-44-RDP-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275835
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-5500K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2870.0 lumens
Efficiency: N/A
Efficacy: 78.3 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

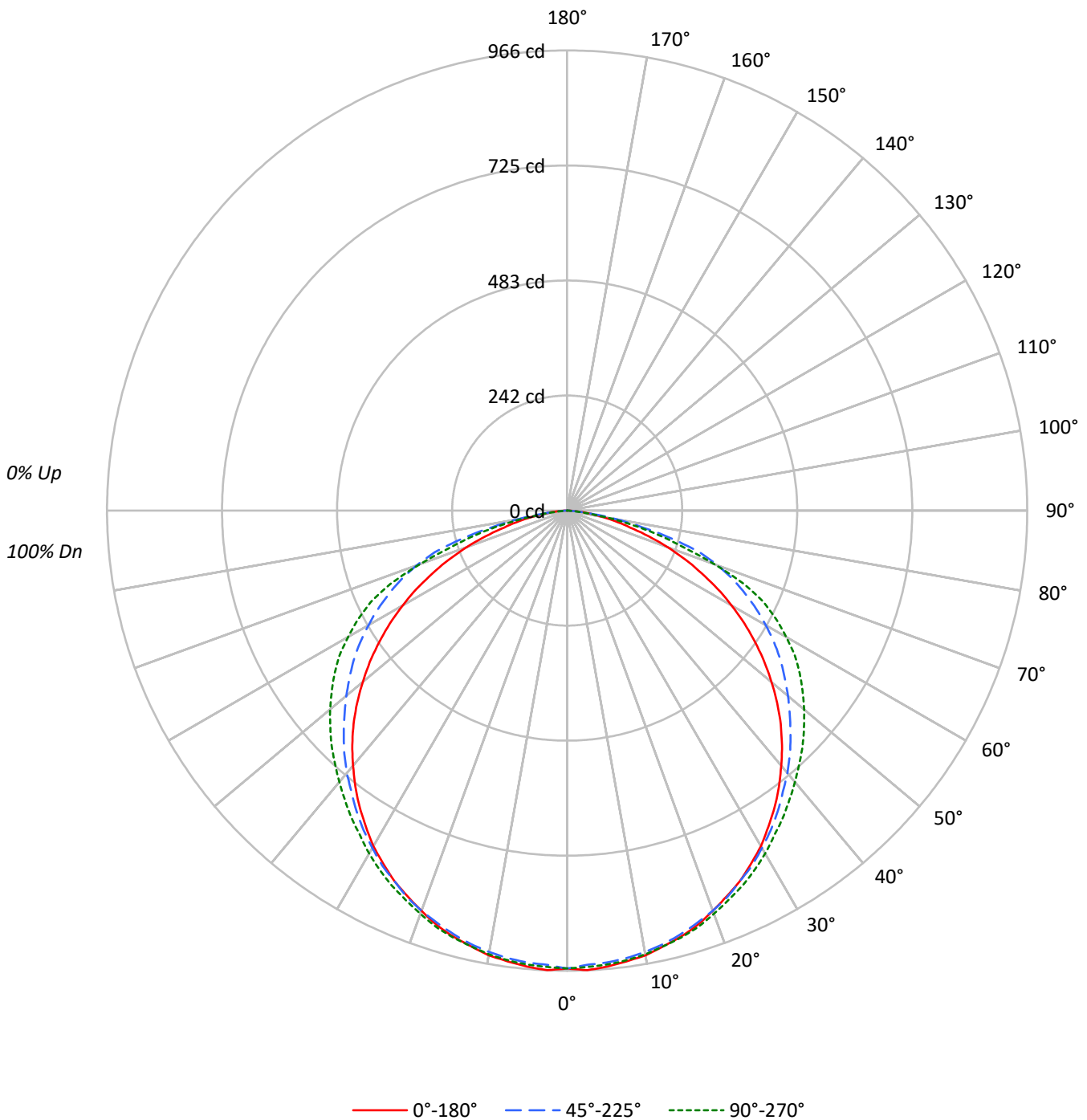
Input Watts (W): 36.642
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2587	2587	2587
5°	2596	2572	2585
10°	2590	2572	2584
15°	2578	2566	2584
20°	2560	2560	2579
25°	2548	2548	2581
30°	2527	2541	2583
35°	2495	2532	2591
40°	2456	2526	2613
45°	2413	2524	2661
50°	2345	2533	2720
55°	2260	2565	2796
60°	2146	2592	2858
65°	1983	2625	2897
70°	1763	2644	2592
75°	1421	2376	2073
80°	1111	1667	1354
85°	760	485	346



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.0	3.2
10°-20°	261.0	9.1
20°-30°	397.5	13.8
30°-40°	484.1	16.9
40°-50°	513.6	17.9
50°-60°	484.7	16.9
60°-70°	391.4	13.6
70°-80°	212.3	7.4
80°-90°	34.4	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°	749.5	26.1
0°-40°	1233.6	43.0
0°-60°	2231.9	77.8
0°-90°	2870.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2870.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	961	961	961	961	961	
5°	961	959	952	959	957	91
15°	925	923	921	928	928	261
25°	858	856	858	867	869	395
35°	760	764	771	786	789	475
45°	634	643	663	688	699	488
55°	482	502	547	583	596	430
65°	311	350	412	446	455	309
75°	137	199	228	206	199	149
85°	25	27	16	13	11	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	961.2	961.2	961.2	961.2	961.2
2.5°	965.7	961.2	954.5	961.2	959.0
5°	961.2	959.0	952.3	959.0	956.8
7.5°	954.5	954.5	947.8	952.3	952.3
10°	947.8	945.6	941.1	947.8	945.6
12.5°	936.6	934.3	932.1	938.8	936.6
15°	925.4	923.1	920.9	927.6	927.6
17.5°	911.9	909.7	907.5	916.4	916.4
20°	894.0	894.0	894.0	903.0	900.7
22.5°	876.1	876.1	878.3	887.3	885.1
25°	858.2	855.9	858.2	867.1	869.4
27.5°	835.8	838.0	840.2	849.2	851.4
30°	813.4	815.6	817.8	829.0	831.3
32.5°	786.5	790.9	795.4	808.9	808.9
35°	759.6	764.1	770.8	786.5	788.7
37.5°	730.4	734.9	743.9	761.8	766.3
40°	699.1	705.8	719.2	737.2	743.9
42.5°	667.7	676.7	692.4	712.5	721.5
45°	634.1	643.1	663.2	687.9	699.1
47.5°	598.3	609.5	634.1	665.5	674.4
50°	560.2	575.8	605.0	638.6	649.8
52.5°	522.1	540.0	575.8	611.7	622.9
55°	481.7	501.9	546.7	582.6	596.0
57.5°	441.4	463.8	515.3	553.4	566.9
60°	398.8	425.7	481.7	519.8	531.0
62.5°	356.3	387.6	448.1	486.2	495.2
65°	311.4	349.5	412.3	445.9	454.9
67.5°	268.9	313.7	376.4	401.1	401.1
70°	224.1	273.4	336.1	342.8	329.4
72.5°	179.3	235.3	291.3	266.6	255.4
75°	136.7	199.4	228.5	206.1	199.4
77.5°	103.1	161.3	161.3	147.9	143.4
80°	71.7	123.2	107.6	94.1	87.4
82.5°	47.1	69.5	56.0	44.8	38.1
85°	24.6	26.9	15.7	13.4	11.2
87.5°	9.0	4.5	2.2	4.5	2.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)