

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: P275889

Luminaire Tested: **14CZ2-44-RDP-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275889
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-L92765-W2A1-U-5500K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2590.0 lumens
Efficiency: N/A
Efficacy: 70.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

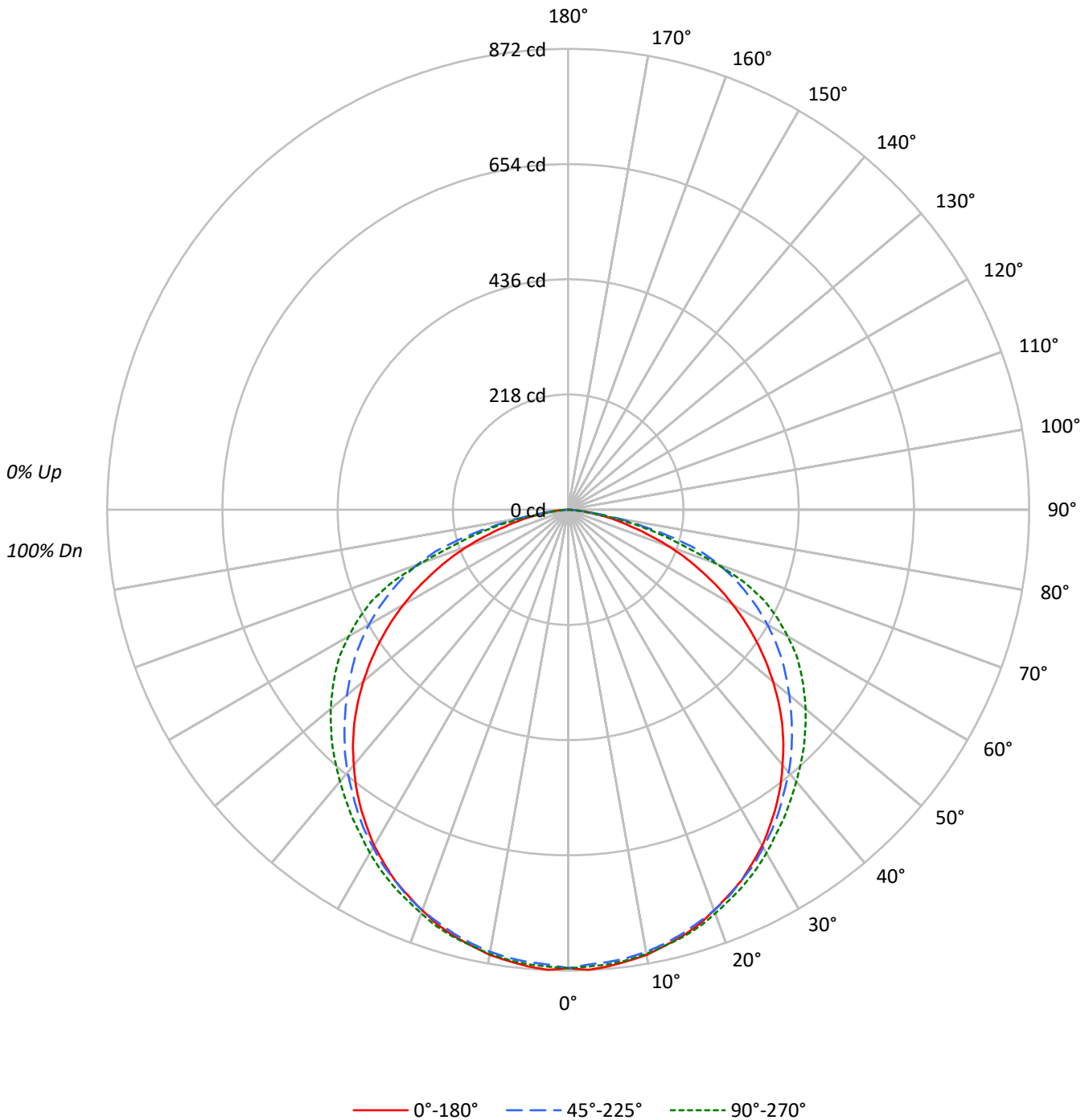
Input Watts (W): 36.642
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2334	2334	2334
5°	2343	2321	2332
10°	2337	2321	2332
15°	2327	2315	2332
20°	2310	2310	2328
25°	2299	2299	2330
30°	2281	2293	2331
35°	2252	2285	2338
40°	2216	2280	2358
45°	2178	2278	2401
50°	2116	2286	2455
55°	2039	2315	2524
60°	1937	2340	2579
65°	1790	2369	2614
70°	1591	2386	2338
75°	1282	2144	1871
80°	1003	1505	1223
85°	685	438	312



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.1	3.2
10°-20°	235.6	9.1
20°-30°	358.7	13.8
30°-40°	436.9	16.9
40°-50°	463.5	17.9
50°-60°	437.4	16.9
60°-70°	353.2	13.6
70°-80°	191.6	7.4
80°-90°	31.0	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
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0°-30°	676.4	26.1
0°-40°	1113.2	43.0
0°-60°	2014.2	77.8
0°-90°	2590.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2590.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	868	868	868	868	868	
5°	868	865	859	865	863	82
15°	835	833	831	837	837	236
25°	774	772	774	782	785	357
35°	686	690	696	710	712	429
45°	572	580	598	621	631	441
55°	435	453	493	526	538	388
65°	281	315	372	402	410	278
75°	123	180	206	186	180	135
85°	22	24	14	12	10	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	867.5	867.5	867.5	867.5	867.5
2.5°	871.5	867.5	861.4	867.5	865.4
5°	867.5	865.4	859.4	865.4	863.4
7.5°	861.4	861.4	855.3	859.4	859.4
10°	855.3	853.3	849.3	855.3	853.3
12.5°	845.2	843.2	841.2	847.2	845.2
15°	835.1	833.1	831.1	837.1	837.1
17.5°	823.0	821.0	818.9	827.0	827.0
20°	806.8	806.8	806.8	814.9	812.9
22.5°	790.6	790.6	792.6	800.7	798.7
25°	774.4	772.4	774.4	782.5	784.6
27.5°	754.2	756.2	758.3	766.4	768.4
30°	734.0	736.0	738.0	748.2	750.2
32.5°	709.7	713.8	717.8	730.0	730.0
35°	685.5	689.5	695.6	709.7	711.8
37.5°	659.2	663.2	671.3	687.5	691.5
40°	630.9	636.9	649.1	665.3	671.3
42.5°	602.6	610.7	624.8	643.0	651.1
45°	572.2	580.3	598.5	620.8	630.9
47.5°	539.9	550.0	572.2	600.5	608.6
50°	505.5	519.7	546.0	576.3	586.4
52.5°	471.1	487.3	519.7	552.0	562.1
55°	434.7	452.9	493.4	525.7	537.9
57.5°	398.3	418.6	465.1	499.4	511.6
60°	359.9	384.2	434.7	469.1	479.2
62.5°	321.5	349.8	404.4	438.8	446.9
65°	281.1	315.4	372.1	402.4	410.5
67.5°	242.6	283.1	339.7	361.9	361.9
70°	202.2	246.7	303.3	309.4	297.2
72.5°	161.8	212.3	262.9	240.6	230.5
75°	123.3	180.0	206.2	186.0	180.0
77.5°	93.0	145.6	145.6	133.5	129.4
80°	64.7	111.2	97.1	84.9	78.9
82.5°	42.5	62.7	50.6	40.4	34.4
85°	22.2	24.3	14.2	12.1	10.1
87.5°	8.1	4.0	2.0	4.0	2.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)