

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: P275888

Luminaire Tested: **14CZ2-44-RDP-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275888
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-5000K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2551.0 lumens
Efficiency: N/A
Efficacy: 70.0 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

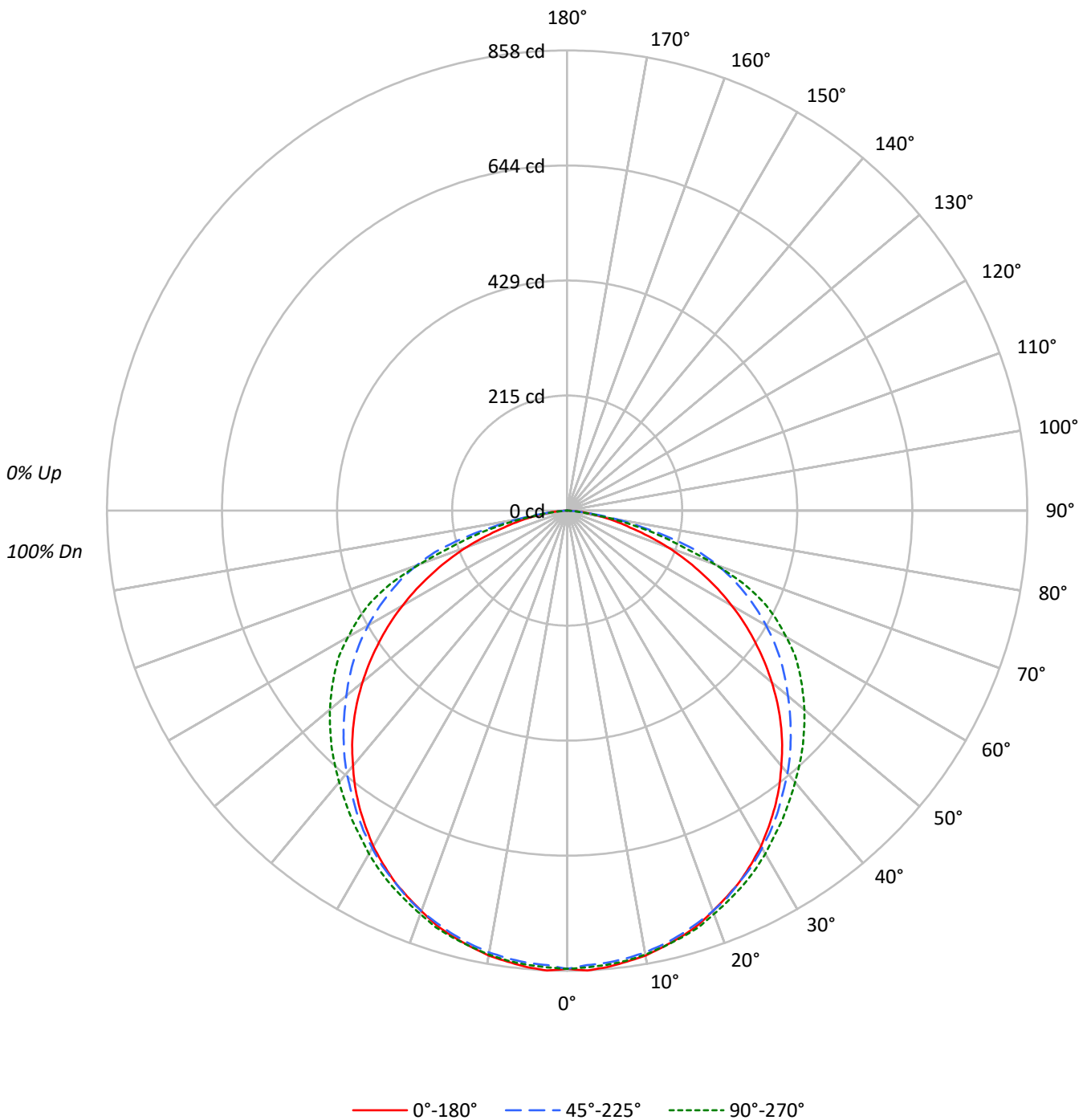
Input Watts (W): 36.456
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84					84			
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69					69			
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	80	68	60	53	66	58	53	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42					42			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37					37			
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32					32			
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29					29			
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26					26			
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23					23			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2299	2299	2299
5°	2308	2286	2297
10°	2302	2286	2297
15°	2291	2280	2297
20°	2275	2275	2293
25°	2265	2265	2294
30°	2246	2259	2296
35°	2218	2251	2303
40°	2183	2246	2323
45°	2145	2243	2365
50°	2084	2251	2418
55°	2009	2280	2486
60°	1908	2305	2540
65°	1762	2334	2574
70°	1567	2350	2304
75°	1263	2112	1843
80°	987	1481	1204
85°	676	429	309



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.9	3.2
10°-20°	232.0	9.1
20°-30°	353.3	13.8
30°-40°	430.3	16.9
40°-50°	456.5	17.9
50°-60°	430.9	16.9
60°-70°	347.9	13.6
70°-80°	188.7	7.4
80°-90°	30.5	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°	666.2	26.1
0°-40°	1096.5	43.0
0°-60°	1983.9	77.8
0°-90°	2551.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2551.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	854	854	854	854	854	
5°	854	852	846	852	850	81
15°	822	820	818	824	824	232
25°	763	761	763	771	773	351
35°	675	679	685	699	701	422
45°	564	572	590	611	621	434
55°	428	446	486	518	530	382
65°	277	311	366	396	404	274
75°	122	177	203	183	177	133
85°	22	24	14	12	10	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	854.4	854.4	854.4	854.4	854.4
2.5°	858.4	854.4	848.4	854.4	852.4
5°	854.4	852.4	846.4	852.4	850.4
7.5°	848.4	848.4	842.4	846.4	846.4
10°	842.4	840.5	836.5	842.4	840.5
12.5°	832.5	830.5	828.5	834.5	832.5
15°	822.5	820.5	818.5	824.5	824.5
17.5°	810.6	808.6	806.6	814.6	814.6
20°	794.6	794.6	794.6	802.6	800.6
22.5°	778.7	778.7	780.7	788.7	786.7
25°	762.8	760.8	762.8	770.7	772.7
27.5°	742.9	744.9	746.8	754.8	756.8
30°	722.9	724.9	726.9	736.9	738.9
32.5°	699.1	703.0	707.0	719.0	719.0
35°	675.2	679.1	685.1	699.1	701.0
37.5°	649.3	653.2	661.2	677.1	681.1
40°	621.4	627.4	639.3	655.2	661.2
42.5°	593.5	601.5	615.4	633.3	641.3
45°	563.6	571.6	589.5	611.4	621.4
47.5°	531.8	541.7	563.6	591.5	599.5
50°	497.9	511.8	537.7	567.6	577.6
52.5°	464.0	480.0	511.8	543.7	553.7
55°	428.2	446.1	485.9	517.8	529.8
57.5°	392.3	412.3	458.1	491.9	503.9
60°	354.5	378.4	428.2	462.1	472.0
62.5°	316.7	344.5	398.3	432.2	440.1
65°	276.8	310.7	366.5	396.3	404.3
67.5°	239.0	278.8	334.6	356.5	356.5
70°	199.2	243.0	298.7	304.7	292.8
72.5°	159.3	209.1	258.9	237.0	227.0
75°	121.5	177.3	203.1	183.2	177.3
77.5°	91.6	143.4	143.4	131.4	127.5
80°	63.7	109.5	95.6	83.6	77.7
82.5°	41.8	61.7	49.8	39.8	33.9
85°	21.9	23.9	13.9	11.9	10.0
87.5°	8.0	4.0	2.0	4.0	2.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)