

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: P275690

Luminaire Tested: **14CZ2-29-S-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275690
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-40)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-29-S-UNV-L92765-W2A1-U-3500K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2506.0 lumens
Efficiency: N/A
Efficacy: 112.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

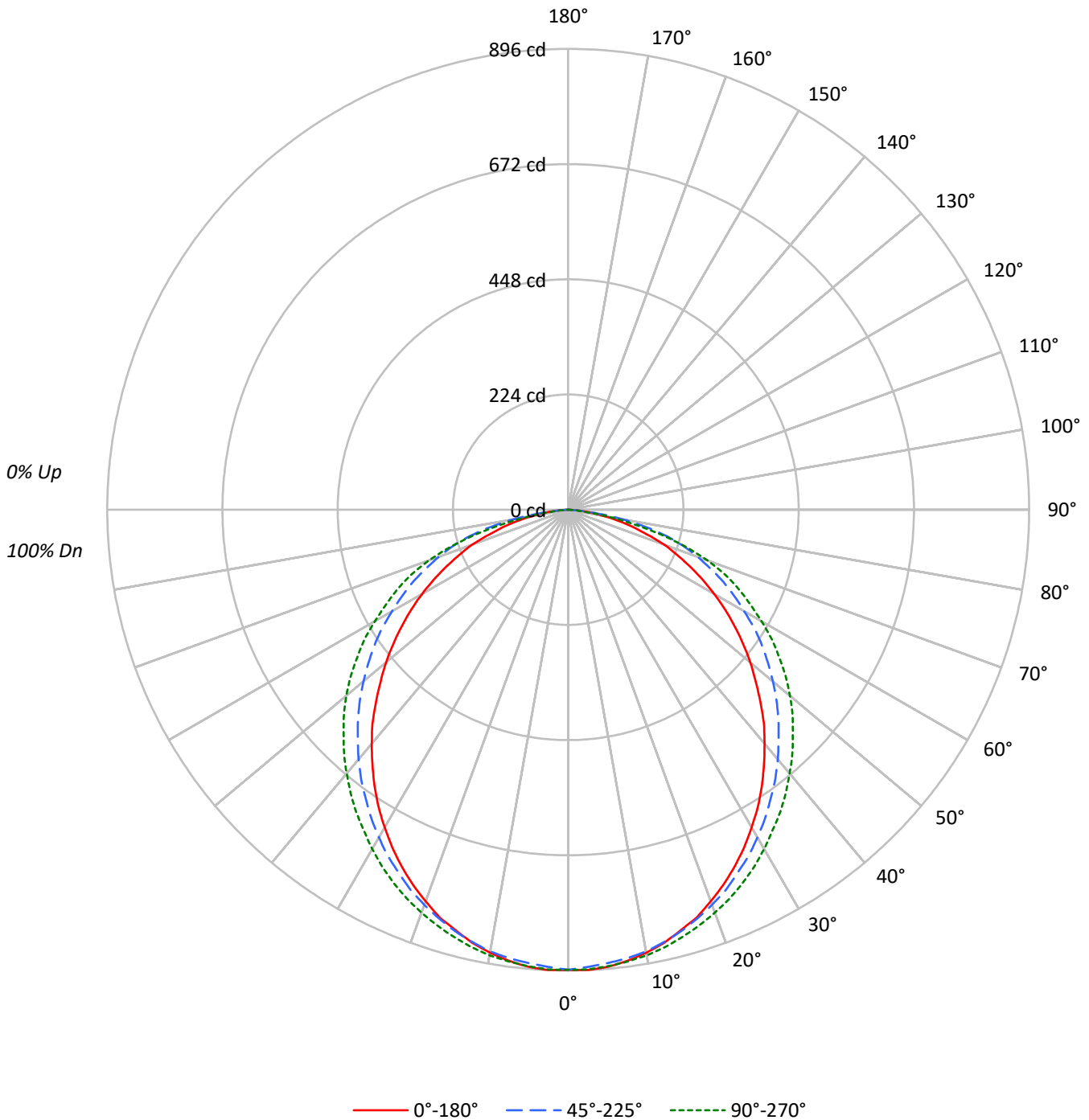
Input Watts (W): 22.227
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	94	91	89	90	88	86	84
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2407	2407	2407
5°	2410	2390	2407
10°	2390	2383	2404
15°	2357	2364	2395
20°	2320	2341	2387
25°	2273	2313	2379
30°	2216	2286	2367
35°	2155	2253	2359
40°	2086	2226	2353
45°	2010	2199	2350
50°	1935	2174	2357
55°	1854	2157	2349
60°	1765	2126	2334
65°	1661	2120	2334
70°	1564	2102	2268
75°	1357	2054	1938
80°	1097	1657	1289
85°	729	574	383



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.5	3.4
10°-20°	240.4	9.6
20°-30°	360.6	14.4
30°-40°	430.1	17.2
40°-50°	444.7	17.7
50°-60°	406.0	16.2
60°-70°	319.5	12.7
70°-80°	186.0	7.4
80°-90°	34.3	1.4
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°	685.4	27.4
0°-40°	1115.6	44.5
0°-60°	1966.3	78.5
0°-90°	2506.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2506.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	895	895	895	895	895	
5°	892	890	885	892	891	85
15°	846	847	849	860	860	239
25°	765	769	779	798	801	352
35°	656	665	686	712	718	410
45°	528	546	578	610	618	408
55°	395	416	460	493	501	353
65°	261	288	333	359	366	259
75°	130	162	198	194	186	139
85°	24	34	19	15	12	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	894.6	894.6	894.6	894.6	894.6
2.5°	895.8	893.4	889.6	895.8	894.6
5°	892.1	889.6	884.7	892.1	890.9
7.5°	884.7	882.2	879.7	887.1	885.9
10°	874.7	873.5	872.2	880.9	879.7
12.5°	862.3	862.3	861.1	871.0	871.0
15°	846.1	847.4	848.6	859.8	859.8
17.5°	831.2	830.0	833.7	846.1	847.4
20°	810.1	812.6	817.6	832.5	833.7
22.5°	789.0	791.5	800.2	815.1	818.8
25°	765.4	769.1	779.0	797.7	801.4
27.5°	740.5	745.5	759.2	779.0	782.8
30°	713.2	720.7	735.6	757.9	761.7
32.5°	685.9	693.3	712.0	734.3	739.3
35°	656.0	664.7	685.9	712.0	718.2
37.5°	625.0	636.2	661.0	687.1	694.6
40°	593.9	606.3	633.7	661.0	669.7
42.5°	562.9	575.3	605.1	636.2	644.9
45°	528.1	545.5	577.8	610.1	617.5
47.5°	494.5	513.2	549.2	581.5	591.4
50°	462.2	480.8	519.4	552.9	562.9
52.5°	428.7	448.5	489.5	524.3	533.0
55°	395.1	416.2	459.7	493.3	500.7
57.5°	361.6	383.9	428.7	461.0	469.7
60°	328.0	351.6	395.1	427.4	433.6
62.5°	294.5	319.3	364.1	392.6	398.8
65°	260.9	288.3	333.0	359.1	366.5
67.5°	228.6	256.0	299.4	324.3	330.5
70°	198.8	223.7	267.1	285.8	288.3
72.5°	161.5	192.6	234.8	244.8	238.6
75°	130.5	161.5	197.6	193.8	186.4
77.5°	99.4	130.5	154.1	141.6	131.7
80°	70.8	101.9	106.9	88.2	83.2
82.5°	46.0	70.8	59.6	46.0	37.3
85°	23.6	33.5	18.6	14.9	12.4
87.5°	7.5	5.0	2.5	2.5	1.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)