

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: P275529

Luminaire Tested: **14CZ2-35-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275529
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-49)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-35-UNV-L92765-W2A1-U-2700K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2731.0 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

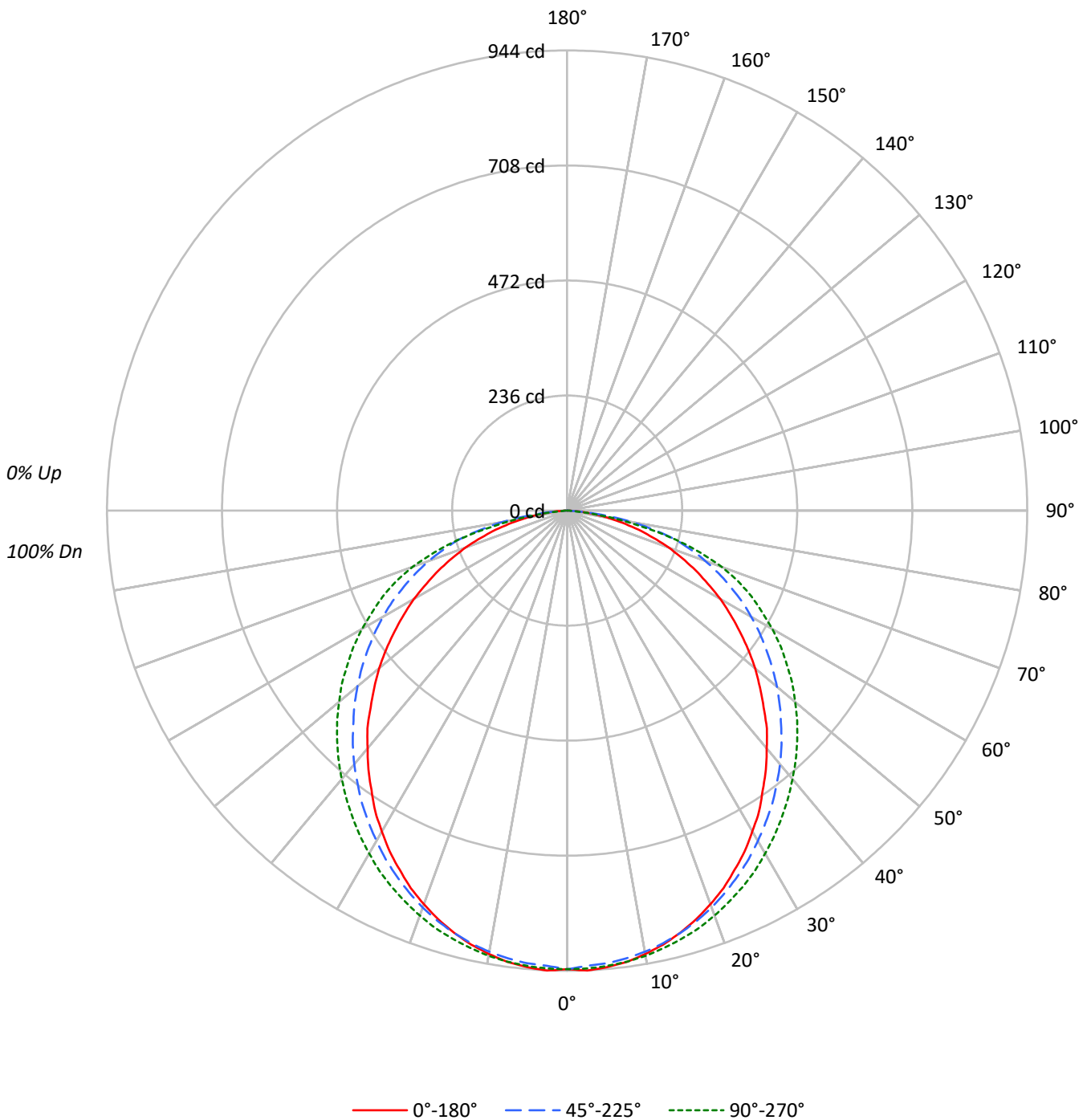
Input Watts (W): 27.342
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	70	61	54	79	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	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	37	30	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2532	2532	2532
5°	2540	2518	2533
10°	2524	2511	2534
15°	2497	2499	2533
20°	2460	2481	2532
25°	2414	2457	2529
30°	2362	2431	2524
35°	2299	2411	2523
40°	2238	2387	2526
45°	2169	2361	2540
50°	2106	2351	2557
55°	2026	2343	2580
60°	1953	2347	2615
65°	1854	2353	2656
70°	1740	2371	2655
75°	1576	2393	2400
80°	1292	2067	1708
85°	960	979	395



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.0	3.3
10°-20°	254.3	9.3
20°-30°	383.1	14.0
30°-40°	459.7	16.8
40°-50°	479.2	17.5
50°-60°	443.6	16.2
60°-70°	358.4	13.1
70°-80°	218.5	8.0
80°-90°	45.1	1.7
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°	726.5	26.6
0°-40°	1186.2	43.4
0°-60°	2109.0	77.2
0°-90°	2731.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2731.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	941	941	941	941	941	
5°	940	938	932	939	938	89
15°	896	897	897	909	909	253
25°	813	818	828	848	852	375
35°	700	711	734	761	768	438
45°	570	587	620	655	667	441
55°	432	454	499	538	550	387
65°	291	320	370	407	417	288
75°	152	185	230	234	231	159
85°	31	46	32	18	13	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	940.8	940.8	940.8	940.8	940.8
2.5°	944.5	941.4	934.7	941.4	940.2
5°	940.2	937.8	932.3	939.0	937.8
7.5°	934.1	931.7	926.8	934.7	933.5
10°	923.8	922.6	918.9	928.1	927.4
12.5°	911.6	911.0	909.2	919.5	918.9
15°	896.4	897.0	897.0	909.2	909.2
17.5°	879.3	880.6	883.0	896.4	898.2
20°	859.2	861.7	866.5	881.8	884.2
22.5°	838.5	840.4	847.7	865.9	868.4
25°	813.0	817.8	827.6	848.3	851.9
27.5°	788.6	792.9	806.3	827.6	833.7
30°	760.0	766.7	782.5	805.6	812.3
32.5°	732.6	739.9	758.2	784.9	791.0
35°	699.7	710.7	733.8	760.6	767.9
37.5°	669.9	680.2	706.4	735.6	744.1
40°	637.0	649.8	679.6	710.7	719.2
42.5°	606.5	618.7	651.0	682.6	694.2
45°	570.0	587.0	620.5	655.2	667.4
47.5°	536.5	553.5	591.9	629.1	640.0
50°	503.0	521.3	561.5	599.8	610.8
52.5°	468.3	487.8	531.0	569.4	582.2
55°	431.8	454.3	499.3	538.3	549.9
57.5°	397.0	420.2	468.3	507.9	519.4
60°	362.9	386.7	436.0	473.8	485.9
62.5°	325.2	353.2	404.3	441.5	450.6
65°	291.1	319.7	369.6	406.8	417.1
67.5°	255.2	286.2	336.1	370.2	380.0
70°	221.1	253.3	301.4	333.1	337.4
72.5°	184.5	217.4	266.1	286.2	286.2
75°	151.6	185.1	230.2	233.8	230.8
77.5°	115.7	152.8	182.1	174.8	167.5
80°	83.4	120.0	133.4	120.0	110.2
82.5°	56.0	87.1	80.4	63.9	56.6
85°	31.1	46.3	31.7	17.7	12.8
87.5°	11.6	10.4	3.0	3.0	3.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)