

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: P275697

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275697
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: 14CZ2-35-S-UNV-L92765-W2A1-U-2700K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2760.0 lumens
Efficiency: N/A
Efficacy: 100.9 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

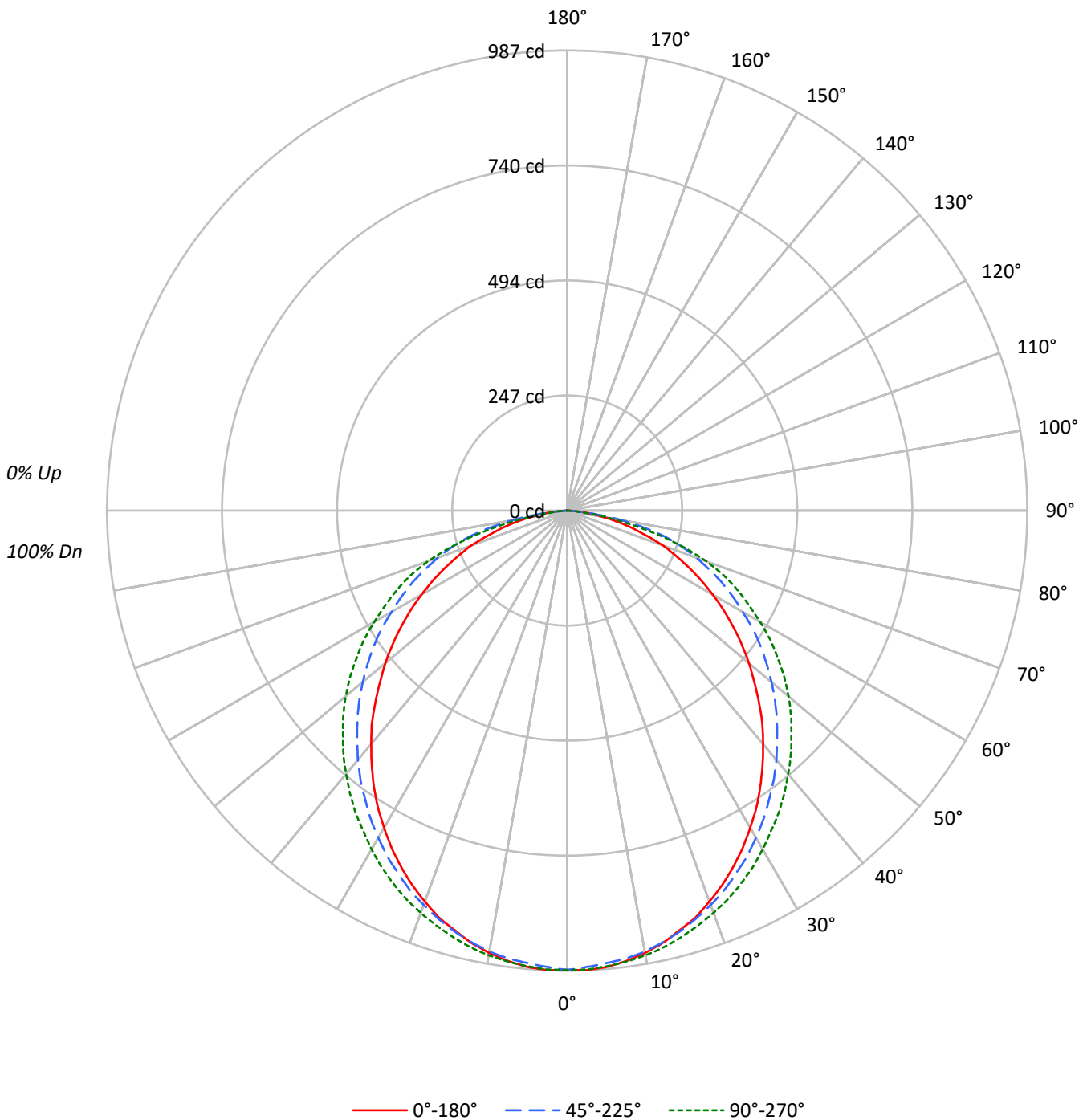
Input Watts (W): 27.342
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2651	2651	2651
5°	2654	2632	2650
10°	2632	2625	2648
15°	2596	2604	2638
20°	2555	2578	2629
25°	2503	2548	2621
30°	2441	2517	2607
35°	2373	2482	2598
40°	2298	2452	2591
45°	2213	2422	2588
50°	2131	2395	2595
55°	2042	2375	2587
60°	1945	2342	2570
65°	1830	2335	2571
70°	1722	2315	2498
75°	1494	2262	2135
80°	1209	1824	1421
85°	803	633	423



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.0	3.4
10°-20°	264.7	9.6
20°-30°	397.1	14.4
30°-40°	473.7	17.2
40°-50°	489.7	17.7
50°-60°	447.1	16.2
60°-70°	351.9	12.7
70°-80°	204.8	7.4
80°-90°	37.7	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°	754.9	27.4
0°-40°	1228.7	44.5
0°-60°	2165.5	78.5
0°-90°	2760.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2760.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	985	985	985	985	985	
5°	982	980	974	982	981	93
15°	932	933	935	947	947	263
25°	843	847	858	878	883	388
35°	722	732	755	784	791	452
45°	582	601	636	672	680	449
55°	435	458	506	543	552	389
65°	287	318	367	396	404	285
75°	144	178	218	214	205	153
85°	26	37	20	16	14	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	985.3	985.3	985.3	985.3	985.3
2.5°	986.6	983.9	979.8	986.6	985.3
5°	982.5	979.8	974.3	982.5	981.2
7.5°	974.3	971.6	968.9	977.1	975.7
10°	963.4	962.0	960.6	970.2	968.9
12.5°	949.7	949.7	948.3	959.3	959.3
15°	931.9	933.3	934.6	947.0	947.0
17.5°	915.5	914.1	918.2	931.9	933.3
20°	892.2	895.0	900.4	916.9	918.2
22.5°	869.0	871.7	881.3	897.7	901.8
25°	843.0	847.1	858.0	878.5	882.6
27.5°	815.6	821.1	836.1	858.0	862.1
30°	785.5	793.7	810.1	834.7	838.9
32.5°	755.4	763.6	784.1	808.7	814.2
35°	722.5	732.1	755.4	784.1	791.0
37.5°	688.3	700.6	728.0	756.7	765.0
40°	654.1	667.8	697.9	728.0	737.6
42.5°	619.9	633.6	666.4	700.6	710.2
45°	581.6	600.7	636.3	671.9	680.1
47.5°	544.6	565.2	604.8	640.4	651.4
50°	509.1	529.6	572.0	609.0	619.9
52.5°	472.1	494.0	539.2	577.5	587.1
55°	435.2	458.4	506.3	543.3	551.5
57.5°	398.2	422.8	472.1	507.7	517.3
60°	361.3	387.3	435.2	470.7	477.6
62.5°	324.3	351.7	401.0	432.4	439.3
65°	287.4	317.5	366.7	395.5	403.7
67.5°	251.8	281.9	329.8	357.2	364.0
70°	218.9	246.3	294.2	314.7	317.5
72.5°	177.9	212.1	258.6	269.6	262.7
75°	143.7	177.9	217.6	213.5	205.3
77.5°	109.5	143.7	169.7	156.0	145.1
80°	78.0	112.2	117.7	97.2	91.7
82.5°	50.6	78.0	65.7	50.6	41.1
85°	26.0	36.9	20.5	16.4	13.7
87.5°	8.2	5.5	2.7	2.7	1.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)