

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: P258776

Luminaire Tested: **14CZ-LD5-25-S-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258776
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35112)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-25-S-UNV-L82765-W2A1-U-4000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2505.0 lumens
Efficiency: N/A
Efficacy: 136.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

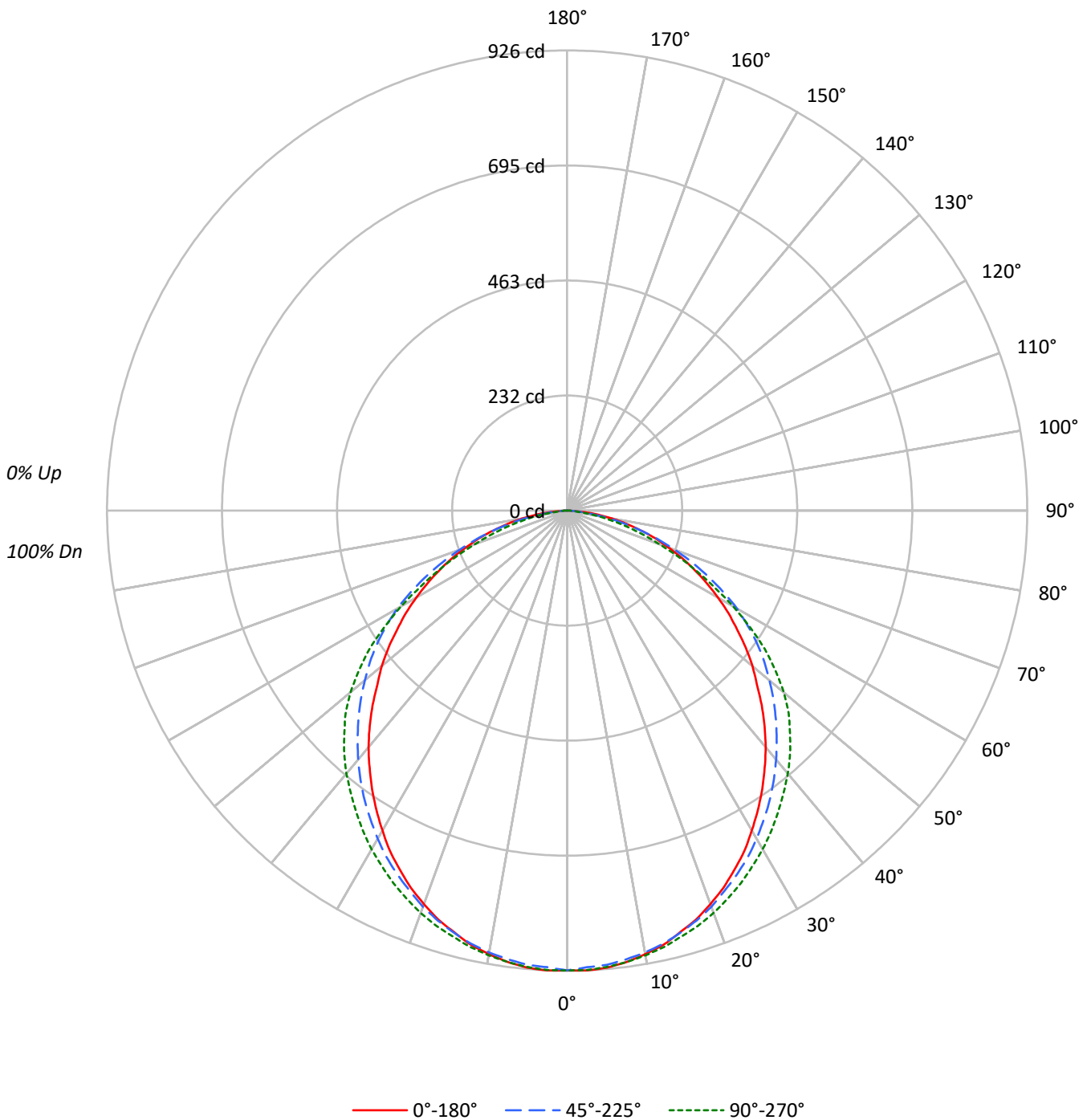
Input Watts (W): 18.414
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	100	97	106	102	98	95	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2490	2490	2490
5°	2494	2478	2491
10°	2477	2467	2483
15°	2447	2450	2472
20°	2413	2429	2468
25°	2366	2399	2456
30°	2310	2369	2445
35°	2248	2336	2431
40°	2184	2298	2427
45°	2107	2260	2413
50°	2038	2224	2383
55°	1959	2189	2278
60°	1886	2126	2079
65°	1805	1990	1827
70°	1703	1809	1546
75°	1590	1567	1277
80°	1401	1210	934
85°	1102	587	516



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.4	3.5
10°-20°	249.1	9.9
20°-30°	373.8	14.9
30°-40°	445.7	17.8
40°-50°	459.0	18.3
50°-60°	409.1	16.3
60°-70°	294.8	11.8
70°-80°	154.2	6.2
80°-90°	31.9	1.3
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°	710.3	28.4
0°-40°	1156.0	46.1
0°-60°	2024.2	80.8
0°-90°	2505.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2505.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	925	925	925	925	925	
5°	923	921	918	923	922	88
15°	878	880	880	888	887	248
25°	797	801	808	824	827	367
35°	684	693	711	734	740	428
45°	554	566	594	627	634	427
55°	418	431	467	488	486	374
65°	284	294	312	298	287	281
75°	153	161	151	131	123	162
85°	36	31	19	17	17	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	925.3	925.3	925.3	925.3	925.3
2.5°	926.5	924.2	919.8	925.3	925.3
5°	923.1	920.9	917.5	923.1	922.0
7.5°	916.4	914.2	910.8	917.5	916.4
10°	906.4	905.3	903.0	909.7	908.6
12.5°	895.2	894.1	893.0	899.7	899.7
15°	878.5	879.6	879.6	888.5	887.4
17.5°	862.8	864.0	865.1	876.2	876.2
20°	842.7	843.9	848.3	860.6	861.7
22.5°	821.5	822.7	828.2	842.7	845.0
25°	797.0	801.4	808.1	823.8	827.1
27.5°	772.4	775.8	786.9	804.8	807.0
30°	743.4	750.1	762.4	782.5	786.9
32.5°	714.4	722.2	736.7	759.0	764.6
35°	684.2	693.2	711.0	734.5	740.1
37.5°	653.0	660.8	683.1	707.7	715.5
40°	621.7	629.5	654.1	682.0	690.9
42.5°	588.2	599.4	624.0	655.2	664.2
45°	553.6	565.9	593.8	627.3	634.0
47.5°	517.9	531.3	563.7	597.2	605.0
50°	486.7	499.0	531.3	563.7	569.3
52.5°	453.2	464.3	500.1	526.9	528.0
55°	417.5	430.9	466.6	487.8	485.6
57.5°	385.1	396.3	430.9	442.0	435.3
60°	350.5	360.5	395.1	396.3	386.2
62.5°	317.0	327.1	353.8	346.0	333.8
65°	283.5	293.6	312.5	298.0	286.9
67.5°	251.1	260.1	271.2	252.3	241.1
70°	216.5	228.8	229.9	207.6	196.5
72.5°	186.4	193.1	190.9	169.7	159.6
75°	152.9	160.7	150.7	130.6	122.8
77.5°	121.7	127.2	113.9	94.9	89.3
80°	90.4	93.8	78.1	63.6	60.3
82.5°	61.4	61.4	44.6	34.6	31.3
85°	35.7	31.3	19.0	16.7	16.7
87.5°	12.3	7.8	7.8	7.8	7.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)