

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: P258780

Luminaire Tested: **14CZ-LD5-25-S-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258780
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-5700K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2616.0 lumens
Efficiency: N/A
Efficacy: 139.3 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

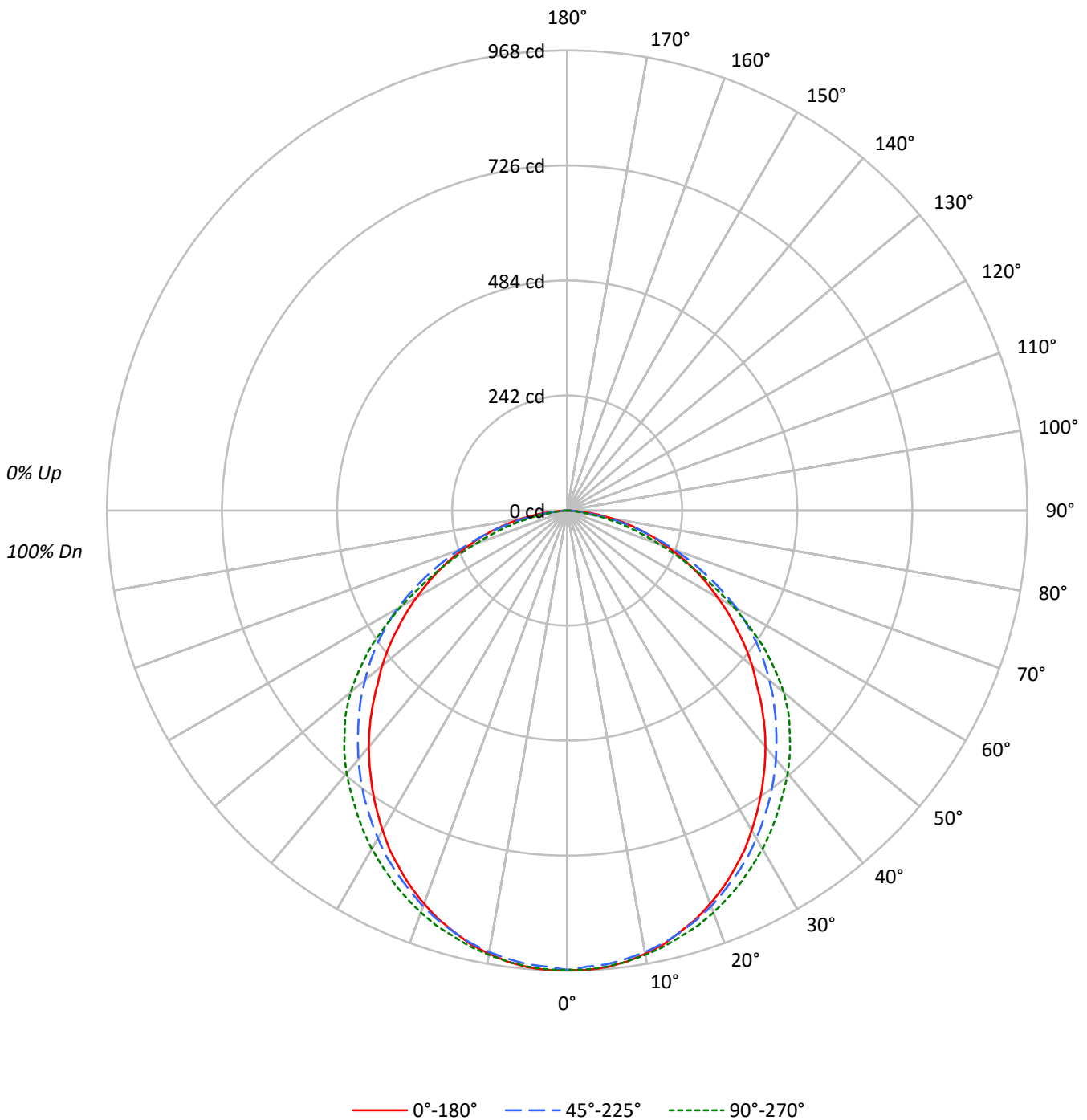
Input Watts (W): 18.786
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2601	2601	2601
5°	2604	2588	2601
10°	2586	2577	2593
15°	2556	2559	2582
20°	2520	2537	2577
25°	2471	2506	2565
30°	2412	2474	2554
35°	2348	2439	2539
40°	2281	2400	2535
45°	2200	2360	2520
50°	2128	2323	2489
55°	2046	2286	2379
60°	1970	2221	2171
65°	1885	2078	1908
70°	1779	1889	1614
75°	1660	1637	1333
80°	1463	1265	975
85°	1152	611	540



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.3	3.5
10°-20°	260.1	9.9
20°-30°	390.4	14.9
30°-40°	465.4	17.8
40°-50°	479.4	18.3
50°-60°	427.2	16.3
60°-70°	307.8	11.8
70°-80°	161.0	6.2
80°-90°	33.3	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°	741.8	28.4
0°-40°	1207.2	46.1
0°-60°	2113.9	80.8
0°-90°	2616.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2616.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	966	966	966	966	966	
5°	964	962	958	964	963	91
15°	917	919	919	928	927	259
25°	832	837	844	860	864	383
35°	715	724	742	767	773	447
45°	578	591	620	655	662	446
55°	436	450	487	509	507	391
65°	296	307	326	311	300	293
75°	160	168	157	136	128	169
85°	37	33	20	18	18	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	966.4	966.4	966.4	966.4	966.4
2.5°	967.5	965.2	960.5	966.4	966.4
5°	964.0	961.7	958.2	964.0	962.9
7.5°	957.0	954.7	951.2	958.2	957.0
10°	946.5	945.4	943.0	950.0	948.9
12.5°	934.9	933.7	932.5	939.5	939.5
15°	917.4	918.6	918.6	927.9	926.7
17.5°	901.1	902.2	903.4	915.1	915.1
20°	880.1	881.3	885.9	898.7	899.9
22.5°	857.9	859.1	864.9	880.1	882.4
25°	832.3	837.0	844.0	860.3	863.8
27.5°	806.7	810.1	821.8	840.5	842.8
30°	776.3	783.3	796.2	817.1	821.8
32.5°	746.0	754.2	769.4	792.7	798.5
35°	714.6	723.9	742.5	767.0	772.8
37.5°	681.9	690.1	713.4	739.0	747.2
40°	649.3	657.4	683.1	712.2	721.6
42.5°	614.3	626.0	651.6	684.3	693.6
45°	578.2	591.0	620.1	655.1	662.1
47.5°	540.9	554.9	588.7	623.6	631.8
50°	508.2	521.1	554.9	588.7	594.5
52.5°	473.3	484.9	522.2	550.2	551.4
55°	436.0	450.0	487.3	509.4	507.1
57.5°	402.2	413.8	450.0	461.6	454.6
60°	366.0	376.5	412.7	413.8	403.3
62.5°	331.1	341.5	369.5	361.4	348.5
65°	296.1	306.6	326.4	311.2	299.6
67.5°	262.3	271.6	283.3	263.4	251.8
70°	226.1	239.0	240.1	216.8	205.2
72.5°	194.7	201.7	199.3	177.2	166.7
75°	159.7	167.9	157.4	136.4	128.2
77.5°	127.1	132.9	118.9	99.1	93.3
80°	94.4	97.9	81.6	66.4	62.9
82.5°	64.1	64.1	46.6	36.1	32.6
85°	37.3	32.6	19.8	17.5	17.5
87.5°	12.8	8.2	8.2	8.2	8.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)