

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: P258778

Luminaire Tested: **14CZ-LD5-25-S-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258778
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-5000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2584.0 lumens
Efficiency: N/A
Efficacy: 138.2 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

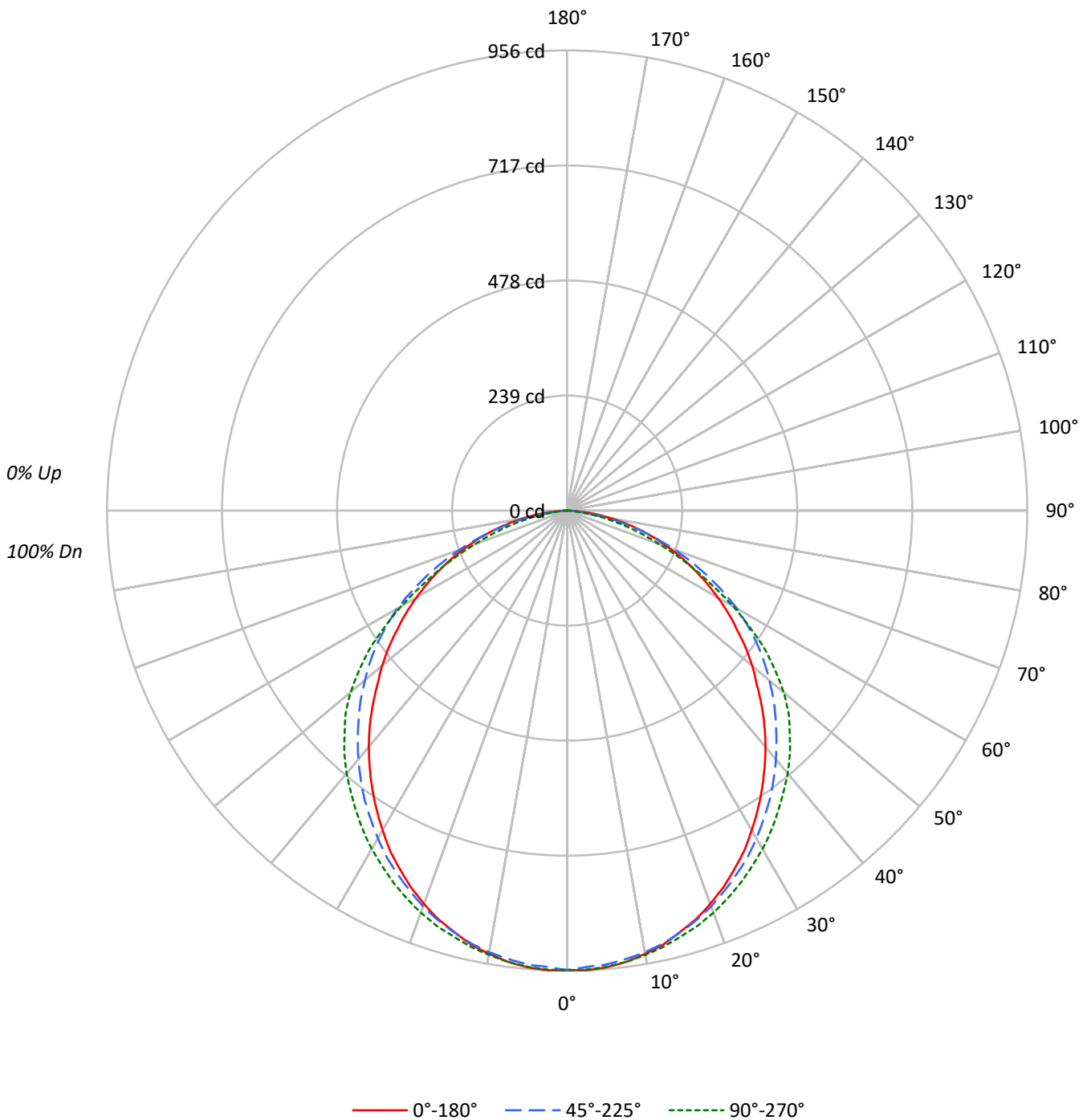
Input Watts (W): 18.693
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2569	2569	2569
5°	2572	2557	2569
10°	2555	2545	2561
15°	2525	2528	2550
20°	2489	2506	2546
25°	2441	2475	2533
30°	2383	2444	2522
35°	2319	2410	2508
40°	2253	2370	2504
45°	2173	2331	2489
50°	2102	2295	2458
55°	2020	2258	2350
60°	1946	2194	2144
65°	1862	2053	1884
70°	1758	1866	1595
75°	1640	1616	1317
80°	1446	1249	964
85°	1136	605	534



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.2	3.5
10°-20°	257.0	9.9
20°-30°	385.6	14.9
30°-40°	459.7	17.8
40°-50°	473.5	18.3
50°-60°	422.0	16.3
60°-70°	304.1	11.8
70°-80°	159.0	6.2
80°-90°	32.9	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°	732.8	28.4
0°-40°	1192.5	46.1
0°-60°	2088.0	80.8
0°-90°	2584.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2584.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	954	954	954	954	954	
5°	952	950	946	952	951	90
15°	906	907	907	916	915	256
25°	822	827	834	850	853	379
35°	706	715	734	758	763	441
45°	571	584	613	647	654	441
55°	431	444	481	503	501	386
65°	292	303	322	307	296	290
75°	158	166	155	135	127	167
85°	37	32	20	17	17	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	954.5	954.5	954.5	954.5	954.5
2.5°	955.7	953.4	948.8	954.5	954.5
5°	952.2	949.9	946.5	952.2	951.1
7.5°	945.3	943.0	939.6	946.5	945.3
10°	935.0	933.8	931.5	938.4	937.3
12.5°	923.4	922.3	921.1	928.0	928.0
15°	906.2	907.3	907.3	916.5	915.4
17.5°	890.1	891.2	892.4	903.9	903.9
20°	869.3	870.5	875.1	887.7	888.9
22.5°	847.4	848.6	854.4	869.3	871.6
25°	822.1	826.7	833.6	849.8	853.2
27.5°	796.8	800.2	811.8	830.2	832.5
30°	766.8	773.8	786.4	807.1	811.8
32.5°	736.9	745.0	759.9	783.0	788.7
35°	705.8	715.0	733.5	757.6	763.4
37.5°	673.6	681.6	704.7	730.0	738.1
40°	641.3	649.4	674.7	703.5	712.7
42.5°	606.8	618.3	643.6	675.9	685.1
45°	571.1	583.8	612.6	647.1	654.0
47.5°	534.3	548.1	581.5	616.0	624.1
50°	502.0	514.7	548.1	581.5	587.2
52.5°	467.5	479.0	515.8	543.5	544.6
55°	430.6	444.4	481.3	503.2	500.9
57.5°	397.2	408.8	444.4	456.0	449.1
60°	361.5	371.9	407.6	408.8	398.4
62.5°	327.0	337.4	365.0	356.9	344.3
65°	292.5	302.8	322.4	307.4	295.9
67.5°	259.1	268.3	279.8	260.2	248.7
70°	223.4	236.0	237.2	214.2	202.7
72.5°	192.3	199.2	196.9	175.0	164.7
75°	157.7	165.8	155.4	134.7	126.7
77.5°	125.5	131.3	117.4	97.9	92.1
80°	93.3	96.7	80.6	65.6	62.2
82.5°	63.3	63.3	46.1	35.7	32.2
85°	36.8	32.2	19.6	17.3	17.3
87.5°	12.7	8.1	8.1	8.1	8.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)