

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: P258838

Luminaire Tested: **14CZ-LD5-29-S-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258838
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-LD5-29-S-UNV-L92765-W2A1-U-3500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2565.0 lumens
Efficiency: N/A
Efficacy: 115.4 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

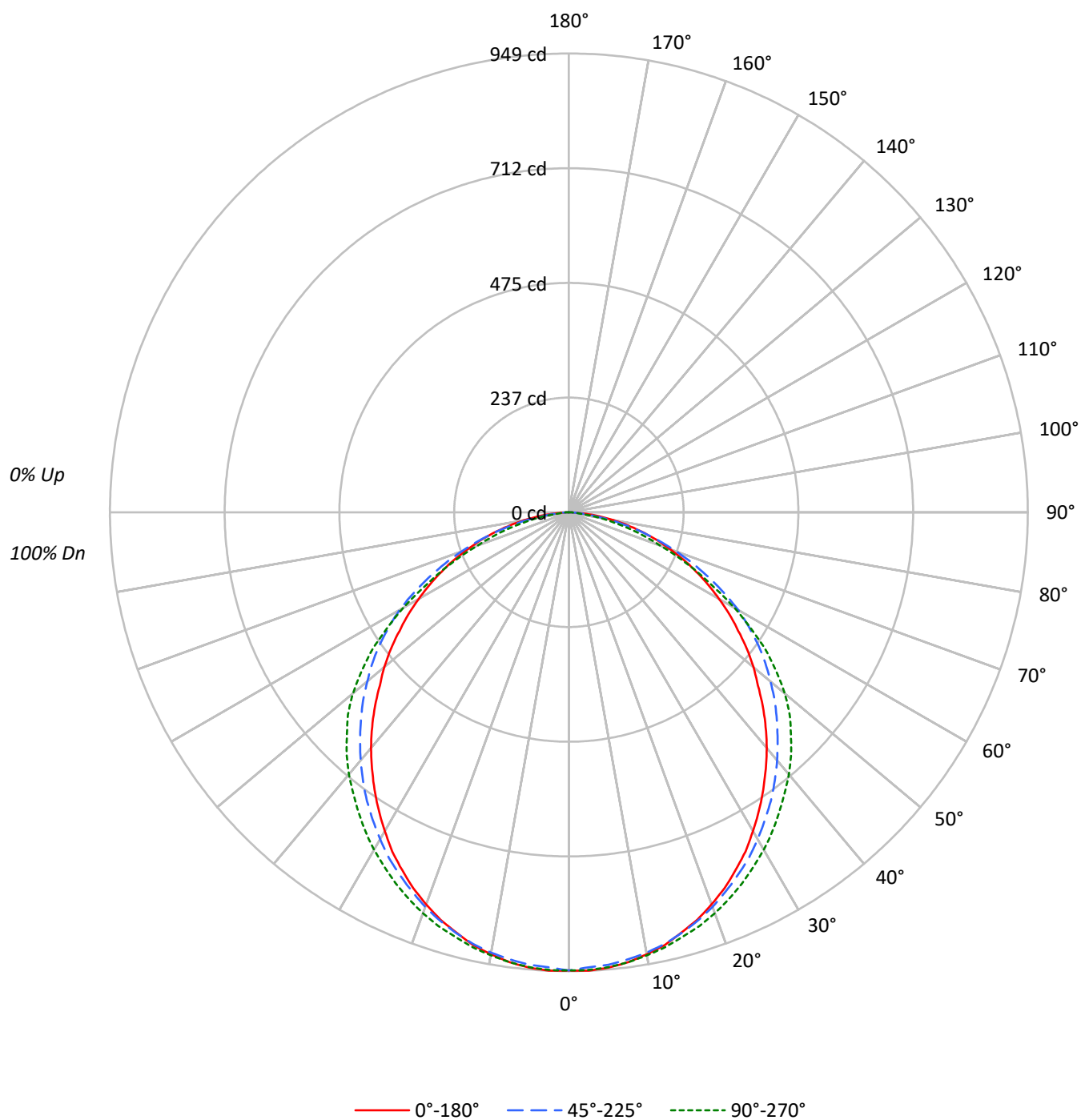
Input Watts (W): 22.227
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	105	100	97	106	102	98	95	98	95	92		94	92	89		91
2	99	91	85	79	97	89	83	78	86	81	76		83	78	75		80
3	91	80	72	66	88	79	71	65	76	69	64		73	68	63		70
4	83	71	63	56	81	70	62	56	67	60	55		65	59	54		63
5	76	64	55	48	74	63	54	48	60	53	47		58	52	47		57
6	71	57	48	42	69	56	48	42	55	47	42		53	46	41		51
7	65	52	43	37	64	51	43	37	50	42	37		48	42	37		47
8	61	47	39	33	59	47	39	33	45	38	33		44	38	33		43
9	57	44	35	30	56	43	35	30	42	35	30		41	34	30		40
10	53	40	32	27	52	40	32	27	39	32	27		38	31	27		37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2550	2550	2550
5°	2553	2538	2550
10°	2536	2527	2542
15°	2506	2509	2532
20°	2471	2487	2527
25°	2423	2457	2515
30°	2365	2426	2504
35°	2302	2392	2489
40°	2236	2353	2485
45°	2157	2314	2471
50°	2086	2277	2440
55°	2006	2242	2333
60°	1932	2178	2129
65°	1848	2038	1870
70°	1744	1852	1583
75°	1628	1604	1307
80°	1435	1240	956
85°	1130	599	528



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.5	3.5
10°-20°	255.1	9.9
20°-30°	382.8	14.9
30°-40°	456.3	17.8
40°-50°	470.0	18.3
50°-60°	418.9	16.3
60°-70°	301.8	11.8
70°-80°	157.8	6.2
80°-90°	32.6	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°	727.4	28.4
0°-40°	1183.7	46.1
0°-60°	2072.7	80.8
0°-90°	2565.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2565.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	948	948	948	948	948	
5°	945	943	940	945	944	90
15°	900	901	901	910	909	254
25°	816	821	828	844	847	376
35°	701	710	728	752	758	438
45°	567	580	608	642	649	437
55°	428	441	478	500	497	383
65°	290	301	320	305	294	288
75°	157	165	154	134	126	166
85°	37	32	19	17	17	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	947.5	947.5	947.5	947.5	947.5
2.5°	948.7	946.4	941.8	947.5	947.5
5°	945.2	942.9	939.5	945.2	944.1
7.5°	938.4	936.1	932.7	939.5	938.4
10°	928.1	926.9	924.7	931.5	930.4
12.5°	916.7	915.5	914.4	921.2	921.2
15°	899.5	900.7	900.7	909.8	908.7
17.5°	883.5	884.6	885.8	897.2	897.2
20°	862.9	864.1	868.6	881.2	882.4
22.5°	841.2	842.4	848.1	862.9	865.2
25°	816.1	820.6	827.5	843.5	846.9
27.5°	790.9	794.4	805.8	824.1	826.4
30°	761.2	768.1	780.6	801.2	805.8
32.5°	731.5	739.5	754.4	777.2	782.9
35°	700.6	709.8	728.1	752.1	757.8
37.5°	668.6	676.6	699.5	724.6	732.6
40°	636.6	644.6	669.8	698.3	707.5
42.5°	602.3	613.8	638.9	670.9	680.1
45°	566.9	579.5	608.1	642.3	649.2
47.5°	530.3	544.0	577.2	611.5	619.5
50°	498.3	510.9	544.0	577.2	582.9
52.5°	464.0	475.5	512.0	539.5	540.6
55°	427.5	441.2	477.8	499.5	497.2
57.5°	394.3	405.7	441.2	452.6	445.8
60°	358.9	369.2	404.6	405.7	395.5
62.5°	324.6	334.9	362.3	354.3	341.7
65°	290.3	300.6	320.0	305.2	293.7
67.5°	257.2	266.3	277.7	258.3	246.9
70°	221.7	234.3	235.4	212.6	201.2
72.5°	190.9	197.7	195.4	173.7	163.4
75°	156.6	164.6	154.3	133.7	125.7
77.5°	124.6	130.3	116.6	97.2	91.4
80°	92.6	96.0	80.0	65.1	61.7
82.5°	62.9	62.9	45.7	35.4	32.0
85°	36.6	32.0	19.4	17.1	17.1
87.5°	12.6	8.0	8.0	8.0	8.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)