

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: P259205

Luminaire Tested: **14CZ-LD5-44-SQP-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259205
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35908)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-44-SQP-UNV-L92765-W2A1-U-5500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2640.0 lumens
Efficiency: N/A
Efficacy: 72.0 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

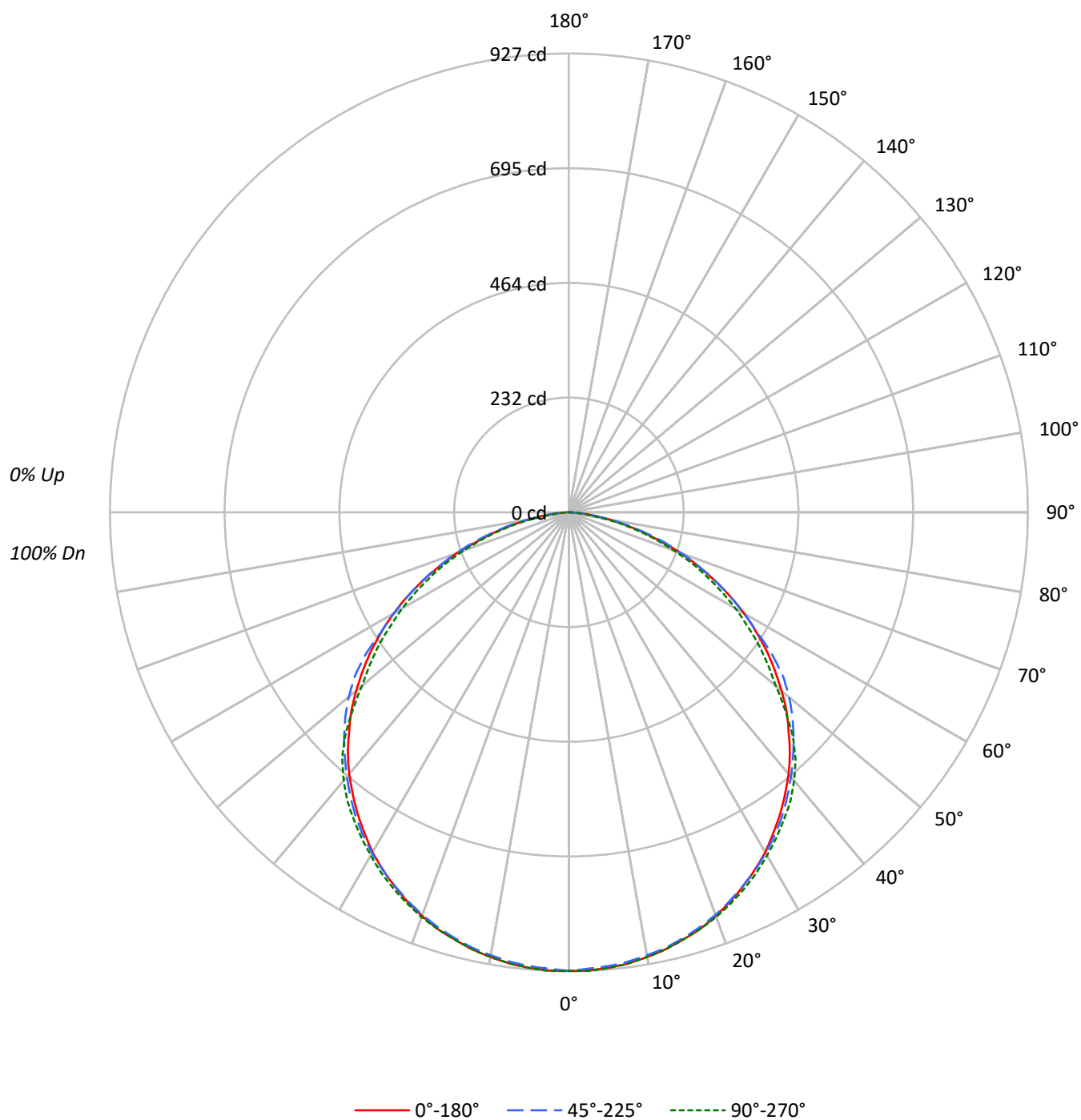
Input Watts (W): 36.642
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	109	104	100	96	106	102	98	95		98	95	92		94	91	89		90	88	86
2	99	91	84	79	97	89	83	78		86	80	76		82	78	74		79	76	73
3	90	80	72	65	88	78	71	65		75	69	64		73	67	63		70	65	62
4	83	71	62	55	81	70	61	55		67	60	54		65	59	54		63	57	53
5	76	63	54	48	74	62	54	47		60	53	47		58	52	46		56	50	46
6	70	57	48	42	68	56	48	41		54	47	41		52	46	41		51	45	40
7	65	52	43	37	63	51	42	37		49	42	36		48	41	36		46	40	36
8	61	47	39	33	59	46	38	33		45	38	32		44	37	32		43	37	32
9	57	43	35	29	55	43	35	29		41	34	29		40	34	29		39	33	29
10	53	40	32	27	52	39	32	27		38	31	26		37	31	26		36	30	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2493	2493	2493
5°	2495	2486	2495
10°	2492	2482	2492
15°	2489	2481	2489
20°	2484	2479	2492
25°	2475	2472	2491
30°	2465	2470	2487
35°	2444	2465	2488
40°	2425	2450	2485
45°	2389	2444	2433
50°	2347	2430	2284
55°	2287	2354	2198
60°	2200	2195	2094
65°	2061	2073	1959
70°	1892	1913	1773
75°	1590	1665	1516
80°	1261	1289	1068
85°	827	716	608



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.7	3.3
10°-20°	252.2	9.6
20°-30°	385.0	14.6
30°-40°	469.8	17.8
40°-50°	491.3	18.6
50°-60°	434.9	16.5
60°-70°	320.3	12.1
70°-80°	165.8	6.3
80°-90°	33.0	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°	724.9	27.5
0°-40°	1194.7	45.3
0°-60°	2120.9	80.3
0°-90°	2640.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2640.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	926	926	926	926	926	
5°	924	924	920	924	924	88
15°	893	893	891	894	893	252
25°	833	833	832	838	839	384
35°	744	746	750	757	757	465
45°	628	633	642	647	639	485
55°	487	497	502	476	469	435
65°	324	343	326	313	308	321
75°	153	164	160	150	146	163
85°	27	29	23	21	20	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	926.4	926.4	926.4	926.4	926.4
2.5°	926.4	926.4	922.8	926.4	927.3
5°	923.7	923.7	920.2	923.7	923.7
7.5°	919.3	918.4	915.7	919.3	919.3
10°	912.1	912.1	908.5	913.0	912.1
12.5°	904.1	903.2	901.4	905.0	904.1
15°	893.3	893.3	890.7	894.2	893.3
17.5°	882.6	881.7	879.0	882.6	882.6
20°	867.4	866.5	865.6	869.2	870.1
22.5°	851.3	850.4	849.5	854.9	854.9
25°	833.4	833.4	832.5	837.9	838.8
27.5°	813.7	813.7	814.6	821.8	820.9
30°	793.2	793.2	795.0	800.3	800.3
32.5°	768.1	769.9	773.5	779.8	779.8
35°	744.0	745.8	750.3	757.4	757.4
37.5°	717.2	719.9	724.3	733.3	735.1
40°	690.3	692.1	697.5	707.3	707.3
42.5°	660.8	662.6	669.8	679.6	677.8
45°	627.7	633.1	642.1	647.4	639.4
47.5°	596.5	600.0	612.5	606.3	592.9
50°	560.7	567.8	580.4	558.0	545.5
52.5°	524.0	532.1	545.5	514.2	507.0
55°	487.4	497.2	501.7	475.7	468.6
57.5°	448.0	458.7	449.8	434.6	427.4
60°	408.7	421.2	407.8	393.5	389.0
62.5°	367.5	381.8	366.6	354.1	347.9
65°	323.7	343.4	325.5	313.0	307.6
67.5°	280.8	301.4	282.6	271.8	268.3
70°	240.5	252.2	243.2	232.5	225.3
72.5°	192.3	203.9	202.1	190.5	186.0
75°	152.9	163.6	160.1	150.2	145.8
77.5°	113.6	125.2	121.6	110.0	108.2
80°	81.4	89.4	83.2	72.4	68.9
82.5°	51.0	57.2	49.2	41.1	39.3
85°	26.8	28.6	23.2	20.6	19.7
87.5°	8.9	9.8	9.8	8.9	8.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)