

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: P259097

Luminaire Tested: **14CZ-LD5-44-SQP-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259097
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-L93050-W2A1-U-4000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2583.0 lumens
Efficiency: N/A
Efficacy: 70.7 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

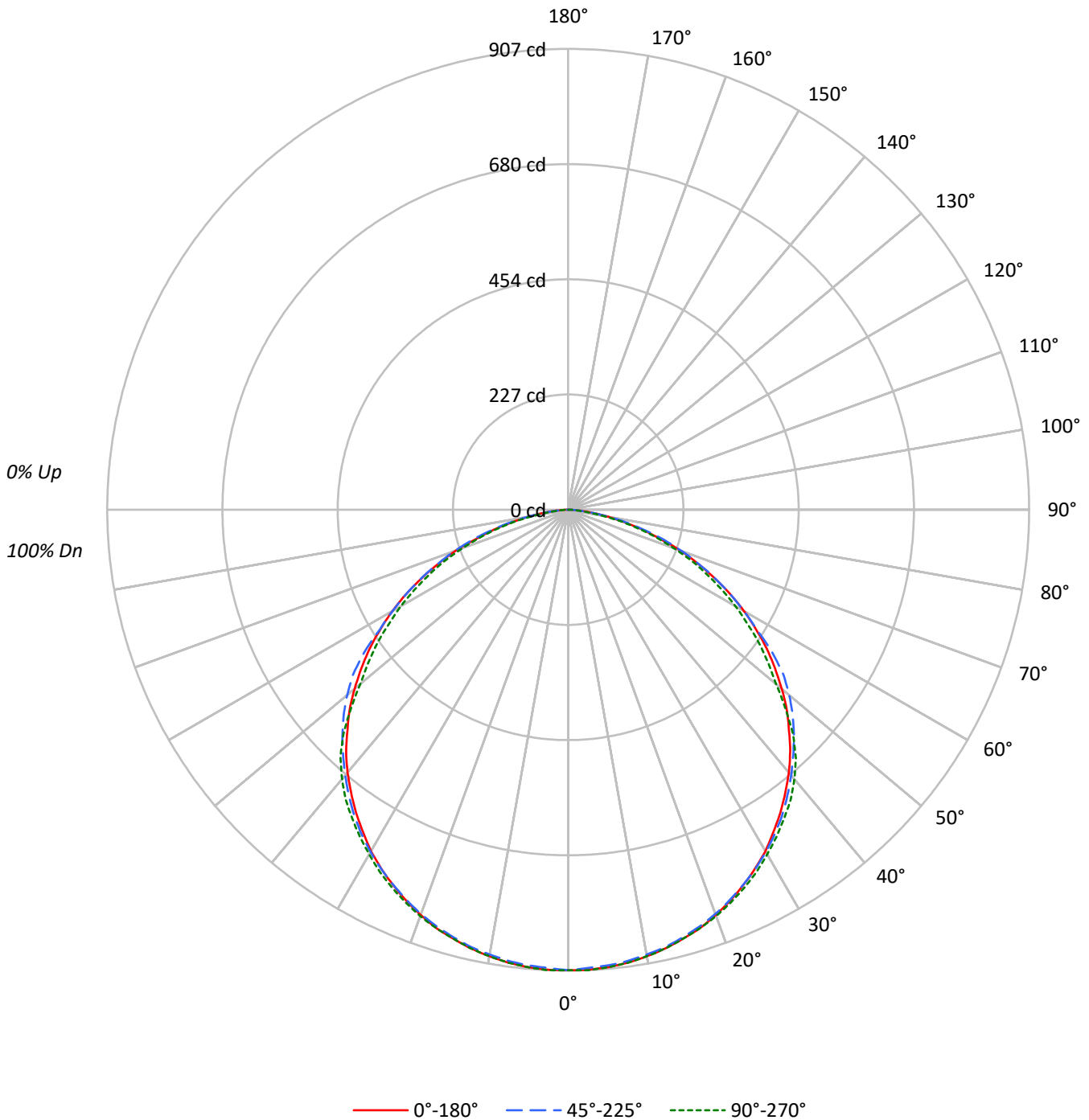
Input Watts (W): 36.549
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	62	59
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	50	46	44
6	70	57	48	42	68	56	48	41	54	47	41	52	46	41	51	45	40	38
7	65	52	43	37	63	51	42	37	49	42	36	48	41	36	46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2439	2439	2439
5°	2441	2432	2441
10°	2438	2429	2438
15°	2435	2428	2435
20°	2430	2425	2438
25°	2421	2419	2437
30°	2412	2417	2433
35°	2391	2412	2435
40°	2373	2397	2431
45°	2337	2391	2381
50°	2297	2377	2234
55°	2237	2303	2151
60°	2152	2147	2048
65°	2017	2028	1917
70°	1852	1873	1735
75°	1555	1628	1483
80°	1234	1261	1044
85°	809	701	593



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.8	3.3
10°-20°	246.7	9.6
20°-30°	376.7	14.6
30°-40°	459.6	17.8
40°-50°	480.6	18.6
50°-60°	425.5	16.5
60°-70°	313.4	12.1
70°-80°	162.2	6.3
80°-90°	32.3	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°	709.3	27.5
0°-40°	1168.9	45.3
0°-60°	2075.1	80.3
0°-90°	2583.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2583.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	906	906	906	906	906	
5°	904	904	900	904	904	86
15°	874	874	871	875	874	247
25°	815	815	815	820	821	376
35°	728	730	734	741	741	455
45°	614	619	628	633	626	474
55°	477	486	491	466	458	425
65°	317	336	318	306	301	314
75°	150	160	157	147	143	160
85°	26	28	23	20	19	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	906.4	906.4	906.4	906.4	906.4
2.5°	906.4	906.4	902.9	906.4	907.3
5°	903.8	903.8	900.3	903.8	903.8
7.5°	899.4	898.5	895.9	899.4	899.4
10°	892.4	892.4	888.9	893.3	892.4
12.5°	884.5	883.7	881.9	885.4	884.5
15°	874.0	874.0	871.4	874.9	874.0
17.5°	863.5	862.7	860.0	863.5	863.5
20°	848.7	847.8	846.9	850.4	851.3
22.5°	832.9	832.1	831.2	836.4	836.4
25°	815.4	815.4	814.6	819.8	820.7
27.5°	796.2	796.2	797.1	804.1	803.2
30°	776.1	776.1	777.8	783.1	783.1
32.5°	751.6	753.3	756.8	762.9	762.9
35°	727.9	729.7	734.1	741.1	741.1
37.5°	701.7	704.3	708.7	717.4	719.2
40°	675.4	677.2	682.4	692.1	692.1
42.5°	646.6	648.3	655.3	664.9	663.2
45°	614.2	619.4	628.2	633.4	625.6
47.5°	583.6	587.1	599.3	593.2	580.1
50°	548.6	555.6	567.8	546.0	533.7
52.5°	512.7	520.6	533.7	503.1	496.1
55°	476.8	486.5	490.8	465.5	458.5
57.5°	438.3	448.8	440.1	425.2	418.2
60°	399.8	412.1	399.0	385.0	380.6
62.5°	359.6	373.6	358.7	346.5	340.3
65°	316.7	336.0	318.5	306.2	301.0
67.5°	274.7	294.8	276.5	266.0	262.5
70°	235.4	246.7	238.0	227.5	220.5
72.5°	188.1	199.5	197.7	186.4	182.0
75°	149.6	160.1	156.6	147.0	142.6
77.5°	111.1	122.5	119.0	107.6	105.9
80°	79.6	87.5	81.4	70.9	67.4
82.5°	49.9	56.0	48.1	40.2	38.5
85°	26.2	28.0	22.7	20.1	19.2
87.5°	8.7	9.6	9.6	8.7	8.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)