

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: P259064

Luminaire Tested: **14CZ-LD5-39-SQP-UNV-L83050-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259064
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-LD5-39-SQP-UNV-L83050-W2A1-U-5000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2668.0 lumens
Efficiency: N/A
Efficacy: 82.2 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

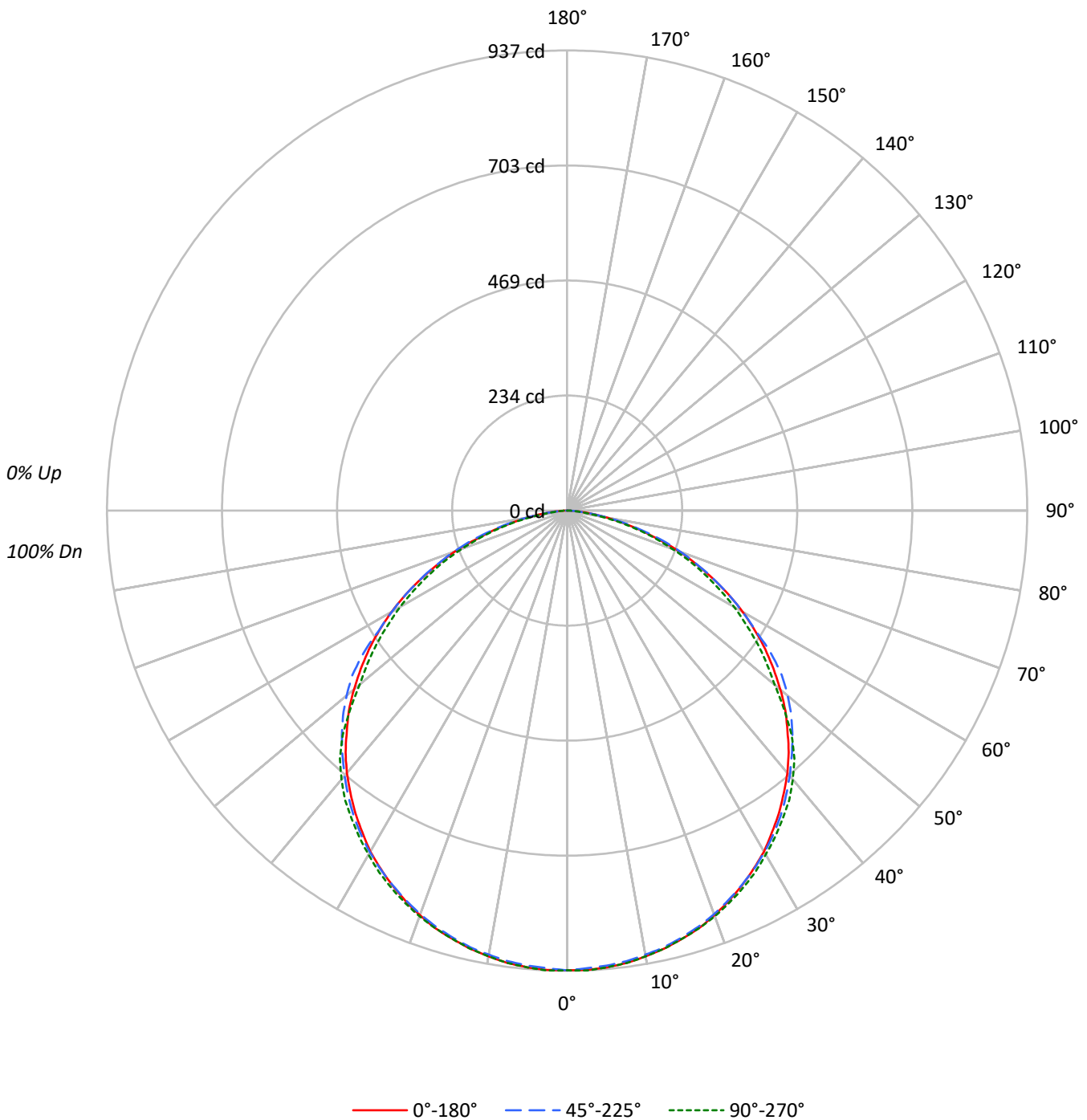
Input Watts (W): 32.457
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2519	2519	2519
5°	2522	2512	2522
10°	2519	2509	2519
15°	2515	2508	2515
20°	2510	2505	2518
25°	2501	2498	2517
30°	2491	2496	2513
35°	2470	2491	2514
40°	2451	2476	2511
45°	2414	2469	2459
50°	2372	2455	2308
55°	2311	2379	2221
60°	2223	2218	2116
65°	2083	2095	1980
70°	1913	1934	1792
75°	1606	1682	1531
80°	1274	1302	1079
85°	837	726	614



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.7	3.3
10°-20°	254.8	9.6
20°-30°	389.1	14.6
30°-40°	474.8	17.8
40°-50°	496.5	18.6
50°-60°	439.5	16.5
60°-70°	323.7	12.1
70°-80°	167.6	6.3
80°-90°	33.4	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°	732.6	27.5
0°-40°	1207.4	45.3
0°-60°	2143.4	80.3
0°-90°	2668.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2668.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	936	936	936	936	936	
5°	934	934	930	934	934	89
15°	903	903	900	904	903	255
25°	842	842	841	847	848	388
35°	752	754	758	765	765	470
45°	634	640	649	654	646	490
55°	492	502	507	481	474	439
65°	327	347	329	316	311	324
75°	154	165	162	152	147	165
85°	27	29	24	21	20	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	936.2	936.2	936.2	936.2	936.2
2.5°	936.2	936.2	932.6	936.2	937.2
5°	933.5	933.5	929.9	933.5	933.5
7.5°	929.0	928.1	925.4	929.0	929.0
10°	921.8	921.8	918.2	922.7	921.8
12.5°	913.7	912.8	910.9	914.6	913.7
15°	902.8	902.8	900.1	903.7	902.8
17.5°	892.0	891.1	888.4	892.0	892.0
20°	876.6	875.7	874.8	878.4	879.3
22.5°	860.3	859.4	858.5	864.0	864.0
25°	842.3	842.3	841.4	846.8	847.7
27.5°	822.4	822.4	823.3	830.5	829.6
30°	801.6	801.6	803.4	808.8	808.8
32.5°	776.3	778.1	781.7	788.0	788.0
35°	751.9	753.7	758.2	765.4	765.4
37.5°	724.8	727.5	732.0	741.0	742.9
40°	697.7	699.5	704.9	714.8	714.8
42.5°	667.8	669.7	676.9	686.8	685.0
45°	634.4	639.8	648.9	654.3	646.2
47.5°	602.8	606.4	619.0	612.7	599.2
50°	566.6	573.9	586.5	563.9	551.3
52.5°	529.6	537.7	551.3	519.6	512.4
55°	492.5	502.5	507.0	480.8	473.5
57.5°	452.8	463.6	454.6	439.2	432.0
60°	413.0	425.6	412.1	397.6	393.1
62.5°	371.4	385.9	370.5	357.9	351.5
65°	327.1	347.0	329.0	316.3	310.9
67.5°	283.8	304.6	285.6	274.7	271.1
70°	243.1	254.8	245.8	235.0	227.7
72.5°	194.3	206.0	204.2	192.5	188.0
75°	154.5	165.4	161.8	151.8	147.3
77.5°	114.8	126.5	122.9	111.2	109.3
80°	82.2	90.4	84.0	73.2	69.6
82.5°	51.5	57.8	49.7	41.6	39.8
85°	27.1	28.9	23.5	20.8	19.9
87.5°	9.0	9.9	9.9	9.0	9.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)