

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: P259143

Luminaire Tested: **14CZ-LD5-39-SQP-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259143
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-L82765-W2A1-U-5700K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2624.0 lumens
Efficiency: N/A
Efficacy: 82.5 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

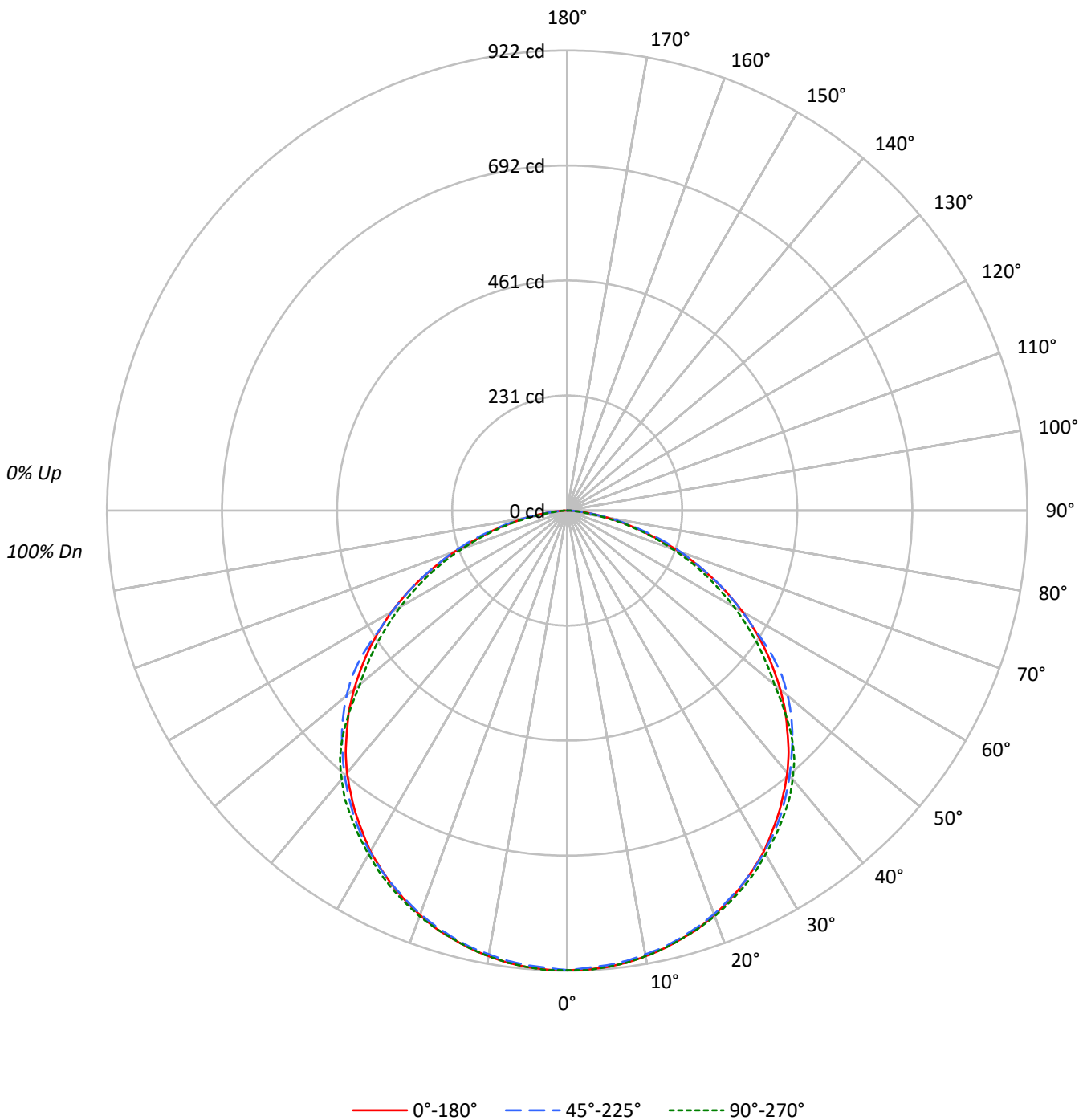
Input Watts (W): 31.806
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2478	2478	2478
5°	2480	2471	2480
10°	2477	2467	2477
15°	2474	2466	2474
20°	2469	2464	2477
25°	2460	2457	2475
30°	2450	2455	2472
35°	2429	2450	2473
40°	2410	2435	2470
45°	2374	2429	2418
50°	2333	2415	2270
55°	2273	2339	2185
60°	2186	2181	2081
65°	2048	2060	1947
70°	1881	1902	1762
75°	1580	1654	1507
80°	1254	1282	1060
85°	824	713	605



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.2	3.3
10°-20°	250.6	9.6
20°-30°	382.7	14.6
30°-40°	466.9	17.8
40°-50°	488.3	18.6
50°-60°	432.3	16.5
60°-70°	318.3	12.1
70°-80°	164.8	6.3
80°-90°	32.8	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°	720.5	27.5
0°-40°	1187.5	45.3
0°-60°	2108.0	80.3
0°-90°	2624.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2624.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	921	921	921	921	921	
5°	918	918	915	918	918	87
15°	888	888	885	889	888	251
25°	828	828	828	833	834	382
35°	740	741	746	753	753	463
45°	624	629	638	644	636	482
55°	484	494	499	473	466	432
65°	322	341	324	311	306	319
75°	152	163	159	149	145	162
85°	27	28	23	20	20	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	920.8	920.8	920.8	920.8	920.8
2.5°	920.8	920.8	917.3	920.8	921.7
5°	918.1	918.1	914.6	918.1	918.1
7.5°	913.7	912.8	910.1	913.7	913.7
10°	906.6	906.6	903.0	907.5	906.6
12.5°	898.6	897.7	895.9	899.5	898.6
15°	887.9	887.9	885.3	888.8	887.9
17.5°	877.3	876.4	873.7	877.3	877.3
20°	862.1	861.3	860.4	863.9	864.8
22.5°	846.1	845.3	844.4	849.7	849.7
25°	828.4	828.4	827.5	832.8	833.7
27.5°	808.8	808.8	809.7	816.8	815.9
30°	788.4	788.4	790.2	795.5	795.5
32.5°	763.5	765.3	768.8	775.0	775.0
35°	739.5	741.3	745.7	752.8	752.8
37.5°	712.8	715.5	719.9	728.8	730.6
40°	686.2	687.9	693.3	703.0	703.0
42.5°	656.8	658.6	665.7	675.5	673.7
45°	623.9	629.3	638.2	643.5	635.5
47.5°	592.8	596.4	608.8	602.6	589.3
50°	557.3	564.4	576.8	554.6	542.2
52.5°	520.8	528.8	542.2	511.1	504.0
55°	484.4	494.2	498.6	472.8	465.7
57.5°	445.3	456.0	447.1	432.0	424.9
60°	406.2	418.6	405.3	391.1	386.6
62.5°	365.3	379.5	364.4	352.0	345.7
65°	321.7	341.3	323.5	311.1	305.8
67.5°	279.1	299.5	280.9	270.2	266.6
70°	239.1	250.6	241.8	231.1	224.0
72.5°	191.1	202.6	200.9	189.3	184.9
75°	152.0	162.7	159.1	149.3	144.9
77.5°	112.9	124.4	120.9	109.3	107.5
80°	80.9	88.9	82.7	72.0	68.4
82.5°	50.7	56.9	48.9	40.9	39.1
85°	26.7	28.4	23.1	20.4	19.6
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)