

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: P259139

Luminaire Tested: **14CZ-LD5-39-SQP-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259139
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-4000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2512.0 lumens
Efficiency: N/A
Efficacy: 80.1 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

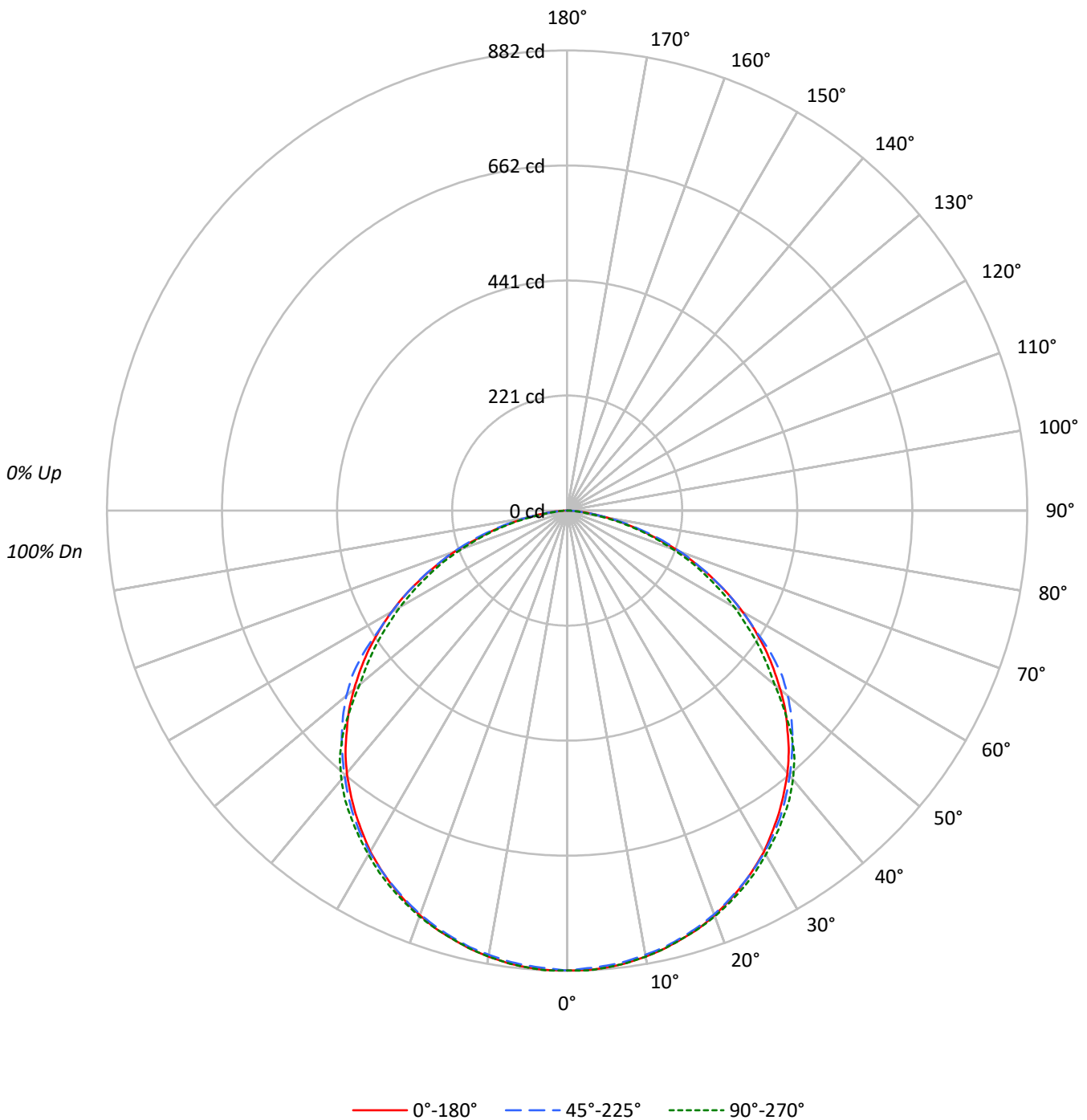
Input Watts (W): 31.341
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2372	2372	2372
5°	2374	2365	2374
10°	2372	2362	2372
15°	2368	2361	2368
20°	2363	2359	2371
25°	2355	2352	2370
30°	2345	2350	2366
35°	2326	2345	2368
40°	2308	2331	2364
45°	2273	2325	2315
50°	2233	2312	2173
55°	2175	2239	2092
60°	2093	2088	1992
65°	1961	1972	1864
70°	1801	1821	1687
75°	1513	1583	1442
80°	1199	1226	1015
85°	787	682	577



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.5	3.3
10°-20°	239.9	9.6
20°-30°	366.4	14.6
30°-40°	447.0	17.8
40°-50°	467.4	18.6
50°-60°	413.8	16.5
60°-70°	304.7	12.1
70°-80°	157.8	6.3
80°-90°	31.4	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°	689.8	27.5
0°-40°	1136.8	45.3
0°-60°	2018.0	80.3
0°-90°	2512.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2512.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	882	882	882	882	882	
5°	879	879	876	879	879	84
15°	850	850	848	851	850	240
25°	793	793	792	797	798	366
35°	708	710	714	721	721	443
45°	597	602	611	616	608	461
55°	464	473	477	453	446	414
65°	308	327	310	298	293	305
75°	146	156	152	143	139	155
85°	26	27	22	20	19	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	881.5	881.5	881.5	881.5	881.5
2.5°	881.5	881.5	878.1	881.5	882.4
5°	879.0	879.0	875.5	879.0	879.0
7.5°	874.7	873.8	871.3	874.7	874.7
10°	867.9	867.9	864.5	868.7	867.9
12.5°	860.2	859.4	857.7	861.1	860.2
15°	850.0	850.0	847.5	850.9	850.0
17.5°	839.8	839.0	836.4	839.8	839.8
20°	825.3	824.5	823.6	827.0	827.9
22.5°	810.0	809.2	808.3	813.4	813.4
25°	793.0	793.0	792.2	797.3	798.1
27.5°	774.3	774.3	775.1	782.0	781.1
30°	754.7	754.7	756.4	761.5	761.5
32.5°	730.9	732.6	736.0	742.0	742.0
35°	707.9	709.6	713.9	720.7	720.7
37.5°	682.4	685.0	689.2	697.7	699.4
40°	656.9	658.6	663.7	673.0	673.0
42.5°	628.8	630.5	637.3	646.7	645.0
45°	597.3	602.4	610.9	616.0	608.4
47.5°	567.5	570.9	582.8	576.9	564.1
50°	533.5	540.3	552.2	530.9	519.0
52.5°	498.6	506.3	519.0	489.3	482.4
55°	463.7	473.1	477.3	452.7	445.9
57.5°	426.3	436.5	428.0	413.5	406.7
60°	388.8	400.8	388.0	374.4	370.1
62.5°	349.7	363.3	348.9	336.9	331.0
65°	308.0	326.7	309.7	297.8	292.7
67.5°	267.2	286.7	268.9	258.7	255.3
70°	228.9	239.9	231.4	221.2	214.4
72.5°	182.9	194.0	192.3	181.2	177.0
75°	145.5	155.7	152.3	142.9	138.7
77.5°	108.1	119.1	115.7	104.7	103.0
80°	77.4	85.1	79.1	68.9	65.5
82.5°	48.5	54.5	46.8	39.1	37.4
85°	25.5	27.2	22.1	19.6	18.7
87.5°	8.5	9.4	9.4	8.5	8.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)