

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: P260305

Luminaire Tested: **22CZ-LD5-34-SQP-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260305
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25713)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-34-SQP-UNV-L82765-W2A1-U-3500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2101.0 lumens
Efficiency: N/A
Efficacy: 81.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.41
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

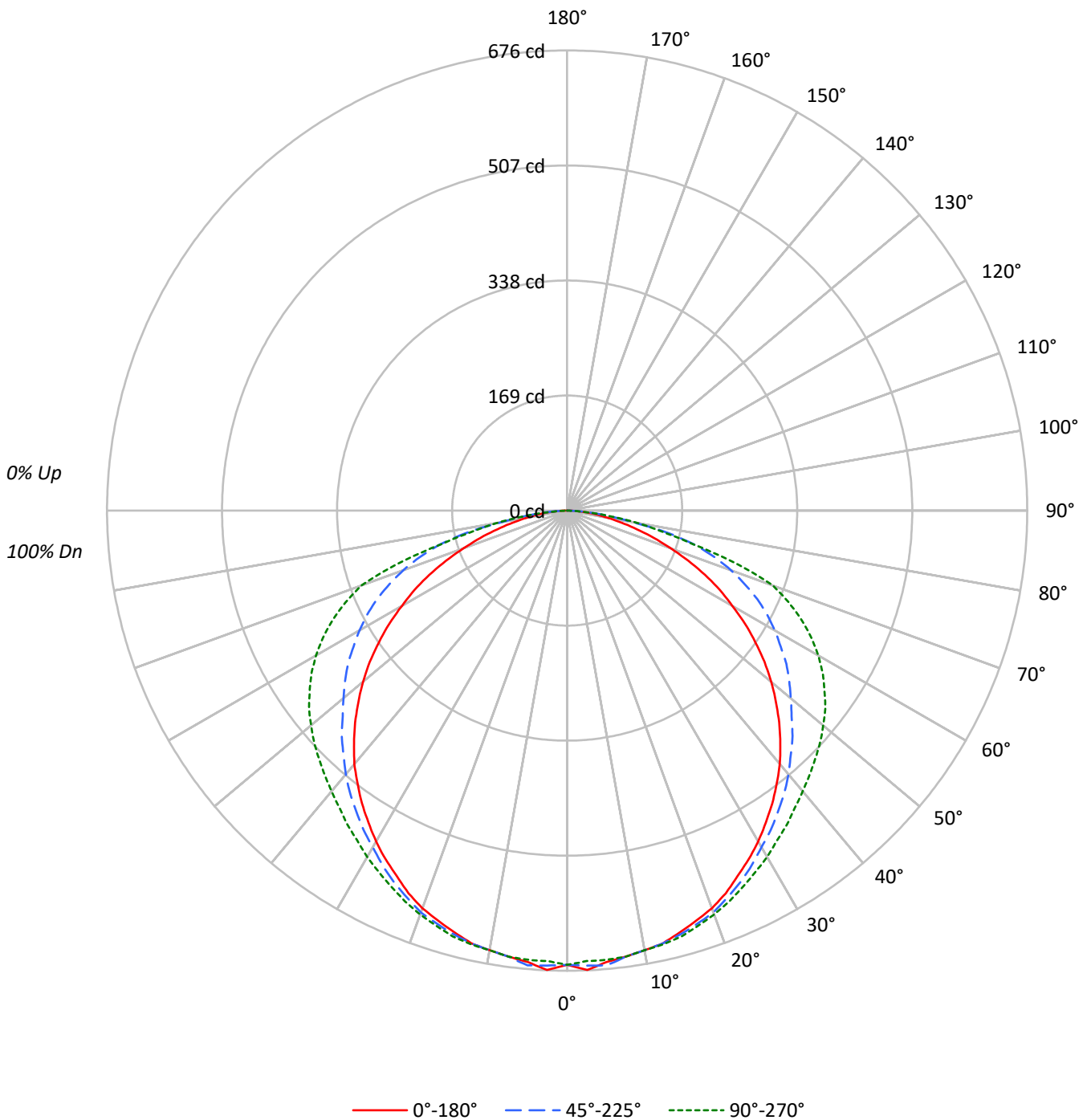
Input Watts (W): 25.761
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70	68
3	89	78	69	62	86	76	68	62	73	66	61	70	64	59	68	63	58	56
4	81	68	59	52	79	67	58	52	64	57	51	62	56	50	60	54	50	47
5	74	61	52	45	72	60	51	44	58	50	44	56	49	43	54	48	43	41
6	68	55	45	39	66	54	45	39	52	44	38	50	43	38	48	42	37	35
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	28
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1796	1796	1796
5°	1798	1811	1789
10°	1792	1792	1792
15°	1786	1796	1805
20°	1780	1799	1808
25°	1759	1788	1812
30°	1744	1775	1825
35°	1726	1774	1849
40°	1708	1777	1891
45°	1676	1782	1962
50°	1639	1796	2056
55°	1584	1845	2166
60°	1510	1897	2292
65°	1423	1964	2421
70°	1271	2016	2529
75°	1103	2019	2001
80°	936	1492	1618
85°	806	1007	908



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.4	3.0
10°-20°	182.0	8.7
20°-30°	277.3	13.2
30°-40°	339.3	16.1
40°-50°	365.1	17.4
50°-60°	353.6	16.8
60°-70°	299.5	14.3
70°-80°	181.1	8.6
80°-90°	39.8	1.9
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°	522.6	24.9
0°-40°	861.9	41.0
0°-60°	1580.6	75.2
0°-90°	2101.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2101.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	667	667	667	667	667	
5°	666	666	671	667	662	63
15°	641	643	644	646	648	181
25°	592	596	602	607	610	273
35°	525	529	540	555	563	329
45°	440	449	468	498	516	340
55°	338	352	393	439	462	302
65°	224	248	308	357	380	220
75°	106	144	194	197	192	114
85°	26	31	33	31	29	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	667.3	667.3	667.3	667.3	667.3
2.5°	675.5	673.9	669.0	665.7	662.4
5°	665.7	665.7	670.6	667.3	662.4
7.5°	660.8	660.8	660.8	669.0	660.8
10°	655.9	657.5	655.9	662.4	655.9
12.5°	651.0	651.0	651.0	652.6	652.6
15°	641.2	642.9	644.5	646.1	647.8
17.5°	631.4	633.1	636.3	638.0	639.6
20°	621.6	623.3	628.2	628.2	631.4
22.5°	608.6	608.6	615.1	616.8	621.6
25°	592.3	595.5	602.1	607.0	610.2
27.5°	577.6	580.9	587.4	593.9	598.8
30°	561.3	564.5	571.1	580.9	587.4
32.5°	543.3	546.6	556.4	567.8	574.3
35°	525.4	528.6	540.1	554.8	562.9
37.5°	505.8	510.7	523.8	540.1	549.9
40°	486.2	491.1	505.8	523.8	538.4
42.5°	463.4	469.9	486.2	510.7	527.0
45°	440.5	448.7	468.3	497.6	515.6
47.5°	416.1	424.2	447.1	484.6	504.2
50°	391.6	401.4	429.1	469.9	491.1
52.5°	365.5	375.3	411.2	455.2	478.1
55°	337.7	352.4	393.2	438.9	461.7
57.5°	310.0	326.3	372.0	421.0	445.4
60°	280.6	300.2	352.4	401.4	425.9
62.5°	252.9	274.1	331.2	380.2	404.6
65°	223.5	248.0	308.4	357.3	380.2
67.5°	192.5	223.5	282.3	329.6	352.4
70°	161.5	197.4	256.2	300.2	321.4
72.5°	133.8	171.3	226.8	264.3	264.3
75°	106.1	143.6	194.2	197.4	192.5
77.5°	81.6	117.5	151.7	138.7	142.0
80°	60.4	89.7	96.3	101.2	104.4
82.5°	40.8	60.4	62.0	65.3	65.3
85°	26.1	31.0	32.6	31.0	29.4
87.5°	11.4	13.1	9.8	6.5	4.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)