

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: P259253

Luminaire Tested: **22CZ-LD5-34-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259253
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25706)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-34-UNV-L93050-W2A1-U-3000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2673.0 lumens
Efficiency: N/A
Efficacy: 101.8 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.26 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

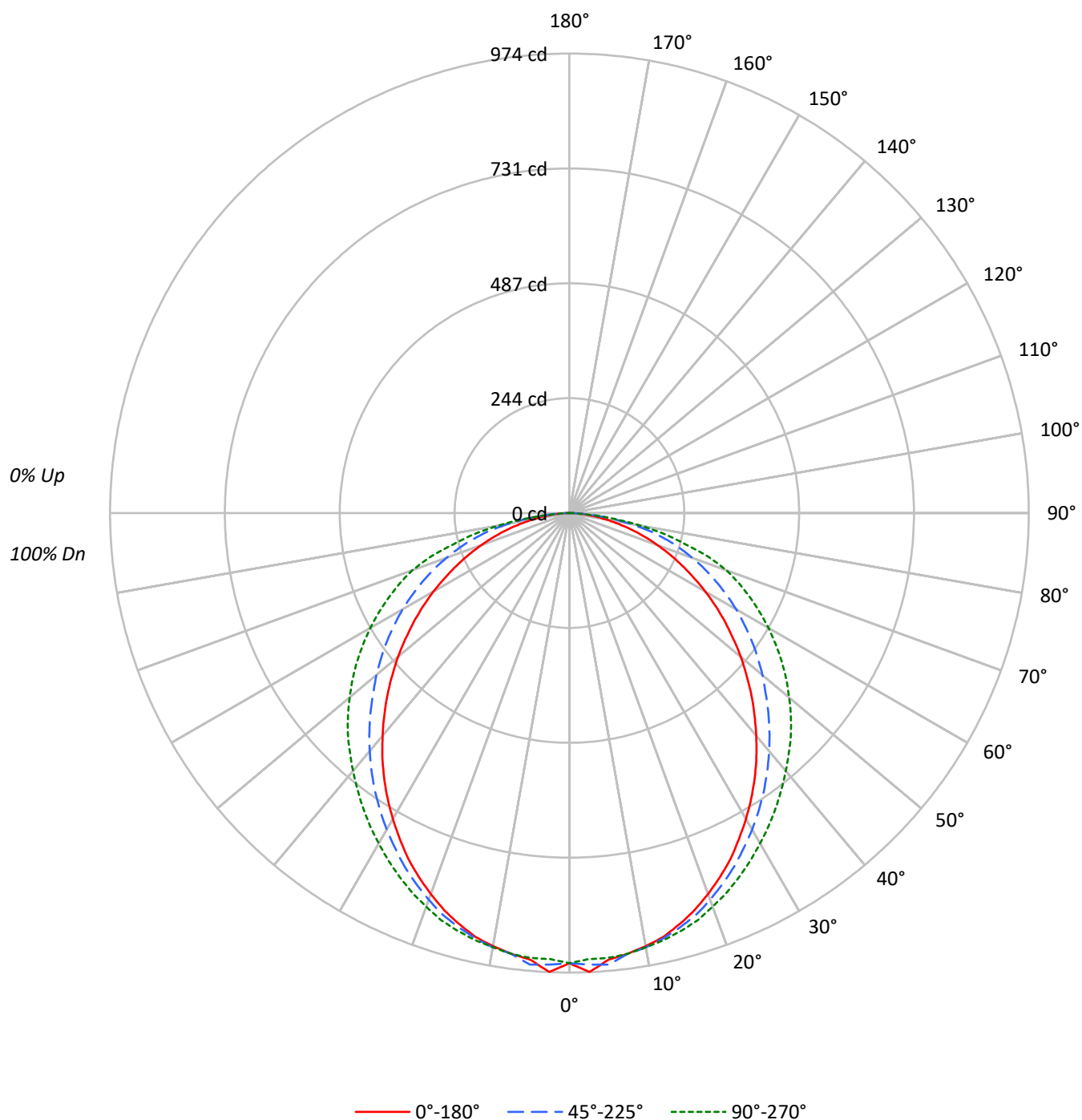
Input Watts (W): 26.258364
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	108	104	99	95	106	101	97	94		97	94	91		93	90	88		89	87	85
2	98	90	83	77	96	88	82	76		84	79	74		81	77	73		78	74	71
3	90	79	70	64	87	77	69	63		74	68	62		71	66	61		69	64	60
4	82	70	61	54	80	68	60	54		66	59	53		64	57	52		61	56	51
5	75	62	53	46	73	61	53	46		59	51	46		57	50	45		55	49	45
6	70	56	47	41	68	55	47	40		53	46	40		52	45	40		50	44	39
7	65	51	42	36	63	50	42	36		48	41	35		47	40	35		46	40	35
8	60	46	38	32	58	46	38	32		44	37	32		43	36	31		42	36	31
9	56	43	34	29	55	42	34	29		41	34	29		40	33	28		39	33	28
10	53	39	31	26	51	39	31	26		38	31	26		37	30	26		36	30	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2567	2567	2567
5°	2567	2595	2556
10°	2547	2554	2554
15°	2513	2531	2553
20°	2460	2498	2542
25°	2401	2455	2528
30°	2326	2407	2512
35°	2250	2361	2507
40°	2164	2315	2507
45°	2077	2270	2528
50°	1986	2236	2547
55°	1891	2213	2579
60°	1791	2197	2623
65°	1680	2185	2690
70°	1565	2179	2782
75°	1419	2176	2636
80°	1229	2015	2337
85°	1044	1525	1485



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.5	3.4
10°-20°	256.3	9.6
20°-30°	381.3	14.3
30°-40°	451.0	16.9
40°-50°	463.5	17.3
50°-60°	423.5	15.8
60°-70°	338.8	12.7
70°-80°	212.7	8.0
80°-90°	55.4	2.1
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°	728.1	27.2
0°-40°	1179.1	44.1
0°-60°	2066.1	77.3
0°-90°	2673.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2673.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	954	954	954	954	954	
5°	950	950	961	954	946	90
15°	902	903	909	914	916	254
25°	808	814	827	841	851	372
35°	685	694	719	746	763	428
45°	546	560	597	641	664	421
55°	403	422	472	524	550	360
65°	264	287	343	395	422	262
75°	136	162	209	240	254	145
85°	34	43	49	48	48	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	954.1	954.1	954.1	954.1	954.1
2.5°	973.6	969.7	958.0	950.2	946.3
5°	950.2	950.2	960.6	954.1	946.3
7.5°	942.4	942.4	942.4	961.9	942.4
10°	932.0	933.3	934.6	942.4	934.6
12.5°	920.3	920.3	922.9	925.5	926.8
15°	902.1	903.4	908.6	913.8	916.4
17.5°	882.6	886.5	893.0	899.5	904.7
20°	859.2	864.4	872.2	882.6	887.8
22.5°	834.5	839.7	850.1	861.8	870.9
25°	808.5	813.7	826.7	841.0	851.4
27.5°	778.6	785.1	800.7	820.2	830.6
30°	748.7	756.5	774.7	796.8	808.5
32.5°	717.5	726.6	747.4	772.1	786.4
35°	685.0	694.1	718.8	746.1	763.0
37.5°	651.2	661.6	688.9	720.1	738.3
40°	616.1	627.8	659.0	692.8	713.6
42.5°	581.0	594.0	627.8	668.1	688.9
45°	545.9	560.2	596.6	640.8	664.2
47.5°	509.5	526.4	564.1	613.5	636.9
50°	474.4	491.3	534.2	584.9	608.3
52.5°	438.0	457.5	503.0	555.0	579.7
55°	403.0	422.4	471.8	523.8	549.8
57.5°	367.9	387.4	439.3	492.6	518.6
60°	332.8	353.6	408.2	460.1	487.4
62.5°	297.7	319.8	375.7	428.9	454.9
65°	263.9	287.3	343.2	395.2	422.4
67.5°	231.4	256.1	310.7	361.4	388.7
70°	198.9	223.6	276.9	326.3	353.6
72.5°	167.7	192.4	244.4	288.6	309.4
75°	136.5	162.5	209.3	240.5	253.5
77.5°	106.6	132.6	172.9	193.7	208.0
80°	79.3	101.4	130.0	145.6	150.8
82.5°	54.6	72.8	91.0	94.9	97.5
85°	33.8	42.9	49.4	48.1	48.1
87.5°	15.6	16.9	14.3	10.4	6.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)