

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: P277462

Luminaire Tested: **22CZ2-34HE-S-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277462
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-23)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-34HE-S-UNV-L92765-W2A1-U-3000K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2752.0 lumens
Efficiency: N/A
Efficacy: 108.4 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.26 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

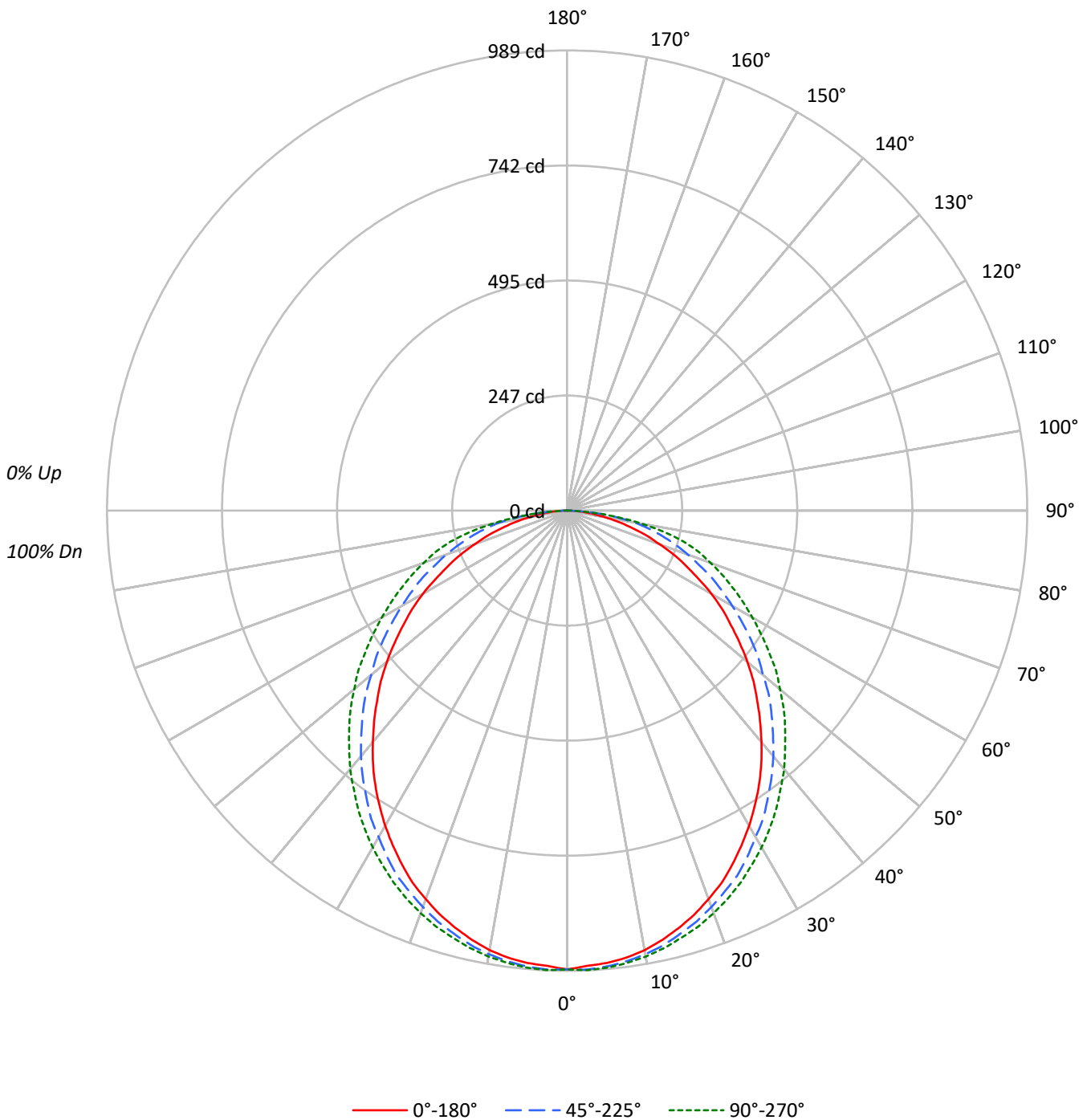
Input Watts (W): 25.389
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	61	56	52	49
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	41	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27
10	53	40	32	26	51	39	31	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2654	2654	2654
5°	2636	2657	2664
10°	2621	2646	2660
15°	2586	2622	2647
20°	2544	2596	2636
25°	2493	2570	2619
30°	2430	2518	2597
35°	2362	2472	2573
40°	2282	2422	2549
45°	2199	2365	2522
50°	2118	2301	2500
55°	2018	2259	2482
60°	1928	2204	2474
65°	1799	2191	2502
70°	1657	2172	2576
75°	1495	2203	2711
80°	1294	2269	2548
85°	1071	1902	1902



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.3	3.4
10°-20°	265.4	9.6
20°-30°	397.1	14.4
30°-40°	470.3	17.1
40°-50°	479.3	17.4
50°-60°	429.5	15.6
60°-70°	336.3	12.2
70°-80°	216.9	7.9
80°-90°	64.0	2.3
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°	755.7	27.5
0°-40°	1226.0	44.5
0°-60°	2134.8	77.6
0°-90°	2752.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2752.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	986	986	986	986	986	
5°	976	978	984	985	986	93
15°	928	934	941	949	950	262
25°	840	848	865	877	882	387
35°	719	728	752	776	783	449
45°	578	591	622	654	663	446
55°	430	444	482	515	529	386
65°	282	299	344	378	393	281
75°	144	166	212	248	261	154
85°	35	48	62	62	62	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	986.1	986.1	986.1	986.1	986.1
2.5°	979.7	982.3	987.4	988.7	988.7
5°	975.9	978.4	983.6	984.8	986.1
7.5°	969.4	970.7	977.1	979.7	981.0
10°	959.2	961.7	968.2	972.0	973.3
12.5°	945.0	948.9	956.6	961.7	963.0
15°	928.3	933.5	941.2	948.9	950.2
17.5°	910.4	915.5	925.8	934.8	937.3
20°	888.5	895.0	906.5	916.8	920.6
22.5°	866.7	871.8	886.0	898.8	902.7
25°	839.7	847.5	865.4	877.0	882.1
27.5°	811.5	820.5	838.5	853.9	859.0
30°	782.0	791.0	810.2	829.5	835.9
32.5°	751.2	761.4	784.5	803.8	810.2
35°	719.1	728.0	752.4	775.5	783.3
37.5°	685.7	693.4	721.6	746.0	753.7
40°	649.7	660.0	689.5	717.8	725.5
42.5°	613.8	625.3	654.9	685.7	693.4
45°	577.8	590.6	621.5	653.6	662.6
47.5°	543.1	553.4	588.1	618.9	631.7
50°	505.9	516.2	549.6	584.2	597.1
52.5°	467.4	481.5	517.5	550.8	566.3
55°	430.1	444.3	481.5	514.9	529.0
57.5°	395.5	407.0	445.6	480.2	494.3
60°	358.2	368.5	409.6	446.8	459.7
62.5°	318.4	333.8	376.2	410.9	426.3
65°	282.5	299.2	344.1	377.5	392.9
67.5°	249.1	264.5	308.2	344.1	360.8
70°	210.6	231.1	276.1	312.0	327.4
72.5°	179.8	197.7	244.0	279.9	296.6
75°	143.8	165.6	211.9	247.8	260.7
77.5°	114.3	136.1	179.8	208.0	214.4
80°	83.5	105.3	146.4	160.5	164.4
82.5°	56.5	77.0	105.3	109.1	110.4
85°	34.7	47.5	61.6	61.6	61.6
87.5°	16.7	19.3	21.8	20.5	20.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)