

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: P259517

Luminaire Tested: **22CZ-LD5-34-S-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259517
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25712)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-34-S-UNV-L92765-W2A1-U-2700K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2746.0 lumens
Efficiency: N/A
Efficacy: 107.4 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

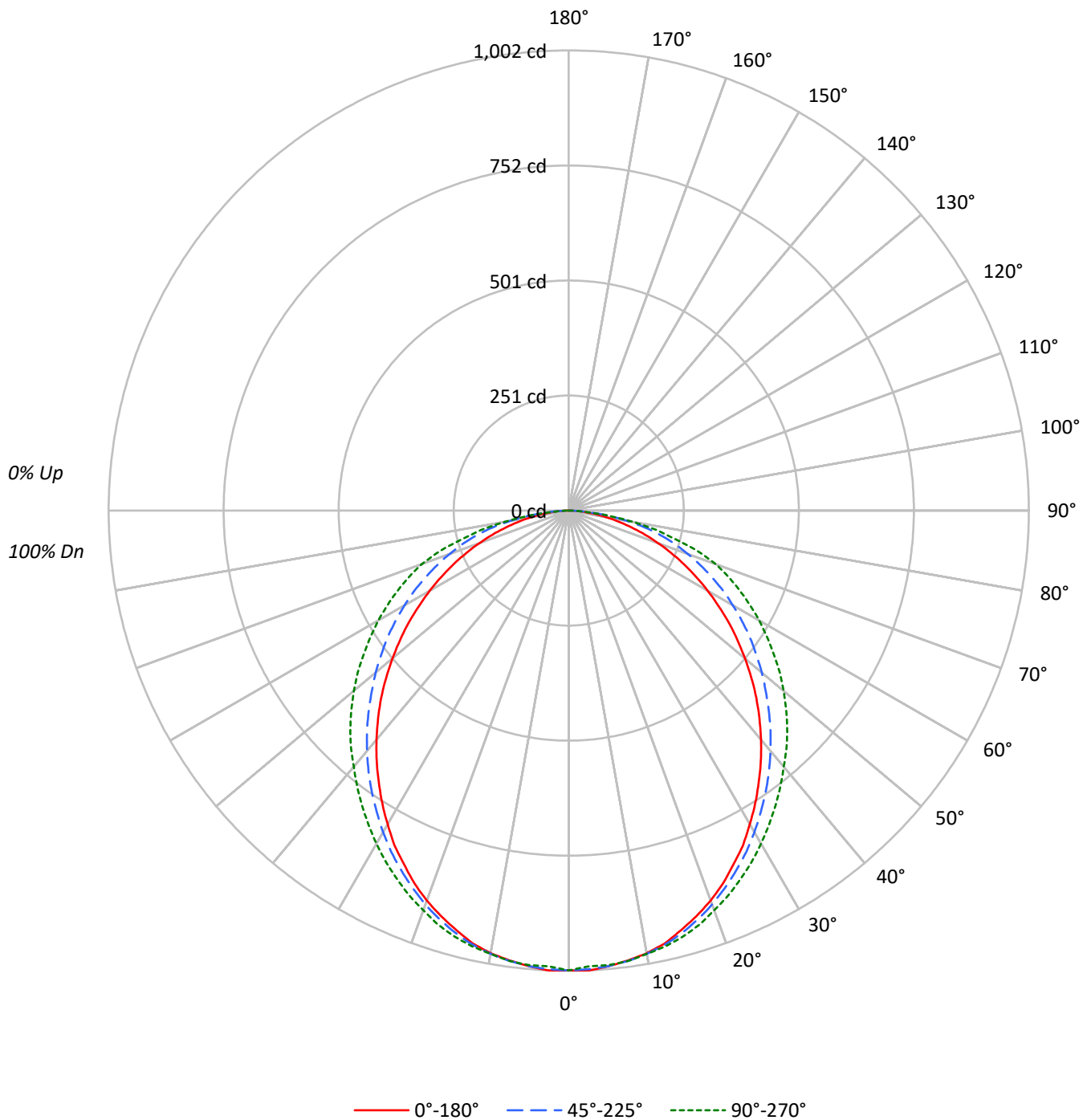
Input Watts (W): 25.575
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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		0
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		100
1	109	104	99	95	106	101	97	94	97	94	91		93	91	88		83
2	99	90	83	77	96	88	82	77	85	79	75		81	77	73		69
3	90	79	71	64	87	78	70	64	75	68	63		72	66	62		58
4	82	70	61	54	80	69	61	54	66	59	53		64	58	53		50
5	76	63	54	47	74	62	53	47	59	52	46		57	51	46		43
6	70	56	47	41	68	56	47	41	54	46	40		52	45	40		38
7	65	51	42	36	63	50	42	36	49	41	36		47	41	36		33
8	60	47	38	32	59	46	38	32	45	37	32		43	37	32		30
9	56	43	35	29	55	42	34	29	41	34	29		40	34	29		27
10	53	40	32	26	52	39	32	26	38	31	26		37	31	26		24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2694	2694	2694
5°	2690	2690	2683
10°	2674	2678	2678
15°	2635	2653	2675
20°	2587	2614	2651
25°	2522	2565	2628
30°	2451	2512	2602
35°	2370	2457	2578
40°	2289	2400	2558
45°	2199	2344	2560
50°	2098	2297	2557
55°	1999	2259	2556
60°	1881	2222	2577
65°	1764	2192	2612
70°	1629	2169	2677
75°	1467	2153	2482
80°	1288	2004	2166
85°	1059	1507	1343



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.5	3.4
10°-20°	268.6	9.8
20°-30°	398.9	14.5
30°-40°	469.5	17.1
40°-50°	478.6	17.4
50°-60°	431.7	15.7
60°-70°	340.0	12.4
70°-80°	209.7	7.6
80°-90°	54.5	2.0
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°	761.9	27.7
0°-40°	1231.5	44.8
0°-60°	2141.8	78.0
0°-90°	2746.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2746.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1001	1001	1001	1001	1001	
5°	996	997	996	994	993	95
15°	946	950	952	958	960	267
25°	849	855	864	878	885	391
35°	722	729	748	772	785	451
45°	578	587	616	653	673	445
55°	426	440	481	525	545	380
65°	277	297	344	388	410	274
75°	141	165	207	231	239	151
85°	34	44	49	46	44	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1001.1	1001.1	1001.1	1001.1	1001.1
2.5°	1002.4	1002.4	999.8	997.1	993.2
5°	995.8	997.1	995.8	994.5	993.2
7.5°	987.9	989.2	989.2	989.2	989.2
10°	978.7	980.0	980.0	980.0	980.0
12.5°	965.5	966.8	968.1	969.4	972.1
15°	945.7	949.6	952.3	957.6	960.2
17.5°	925.9	929.9	933.8	940.4	945.7
20°	903.5	906.1	912.7	920.6	925.9
22.5°	878.4	882.4	889.0	899.5	907.4
25°	849.4	854.7	863.9	878.4	885.0
27.5°	821.7	825.7	837.5	853.4	862.6
30°	788.7	794.0	808.5	828.3	837.5
32.5°	755.8	762.4	778.2	800.6	811.2
35°	721.5	729.4	747.8	771.6	784.8
37.5°	687.2	695.1	716.2	742.6	757.1
40°	651.6	659.5	683.2	712.2	728.1
42.5°	614.6	623.9	650.2	683.2	701.7
45°	577.7	586.9	615.9	652.9	672.7
47.5°	539.4	550.0	581.7	622.5	642.3
50°	501.2	513.1	548.7	590.9	610.7
52.5°	462.9	476.1	514.4	557.9	579.0
55°	426.0	440.5	481.4	524.9	544.7
57.5°	386.5	403.6	447.1	489.3	511.8
60°	349.5	368.0	412.8	455.0	478.8
62.5°	312.6	332.4	379.9	422.1	444.5
65°	277.0	296.8	344.2	387.8	410.2
67.5°	241.4	263.8	310.0	353.5	375.9
70°	207.1	230.8	275.7	317.9	340.3
72.5°	174.1	197.8	242.7	282.3	295.4
75°	141.1	164.9	207.1	230.8	238.7
77.5°	110.8	133.2	170.1	184.7	195.2
80°	83.1	102.9	129.3	138.5	139.8
82.5°	56.7	73.9	89.7	91.0	89.7
85°	34.3	43.5	48.8	46.2	43.5
87.5°	15.8	17.1	15.8	10.6	6.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)