

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: P259515

Luminaire Tested: **22CZ-LD5-29-S-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259515
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-LD5-29-S-UNV-L92765-W2A1-U-5700K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2741.0 lumens
Efficiency: N/A
Efficacy: 127.6 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

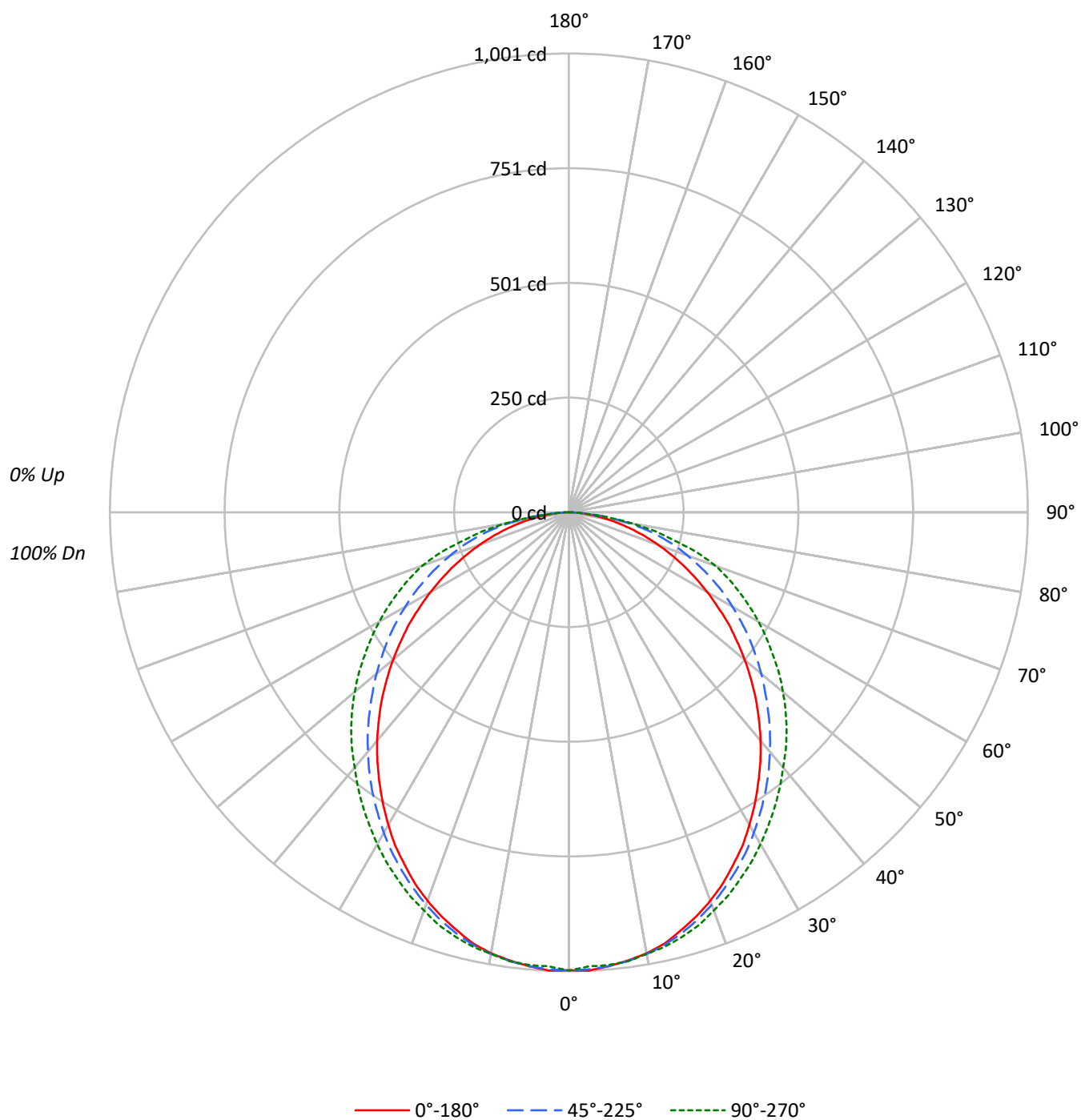
Input Watts (W): 21.483
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	104	99	95	106	101	97	94		97	94	91		93	91	88		90	87	85
2	99	90	83	77	96	88	82	77		85	79	75		81	77	73		78	75	71
3	90	79	71	64	87	78	70	64		75	68	63		72	66	62		69	64	60
4	82	70	61	54	80	69	61	54		66	59	53		64	58	53		62	56	52
5	76	63	54	47	74	62	53	47		59	52	46		57	51	46		56	50	45
6	70	56	47	41	68	56	47	41		54	46	40		52	45	40		50	44	40
7	65	51	42	36	63	50	42	36		49	41	36		47	41	36		46	40	35
8	60	47	38	32	59	46	38	32		45	37	32		43	37	32		42	36	32
9	56	43	35	29	55	42	34	29		41	34	29		40	34	29		39	33	29
10	53	40	32	26	52	39	32	26		38	31	26		37	31	26		36	30	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2689	2689	2689
5°	2685	2685	2678
10°	2669	2673	2673
15°	2630	2648	2670
20°	2582	2609	2647
25°	2518	2560	2623
30°	2446	2508	2598
35°	2366	2452	2573
40°	2285	2396	2553
45°	2194	2340	2555
50°	2094	2293	2552
55°	1995	2254	2551
60°	1878	2218	2572
65°	1761	2188	2607
70°	1626	2165	2673
75°	1465	2149	2478
80°	1285	1999	2163
85°	1056	1504	1340



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.4	3.4
10°-20°	268.1	9.8
20°-30°	398.1	14.5
30°-40°	468.6	17.1
40°-50°	477.8	17.4
50°-60°	430.9	15.7
60°-70°	339.4	12.4
70°-80°	209.4	7.6
80°-90°	54.3	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°	760.6	27.7
0°-40°	1229.2	44.8
0°-60°	2137.9	78.0
0°-90°	2741.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2741.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	999	999	999	999	999	
5°	994	995	994	993	991	94
15°	944	948	950	956	958	266
25°	848	853	862	877	883	391
35°	720	728	746	770	783	451
45°	577	586	615	652	671	444
55°	425	440	480	524	544	379
65°	276	296	344	387	409	274
75°	141	165	207	230	238	150
85°	34	43	49	46	43	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	999.3	999.3	999.3	999.3	999.3
2.5°	1000.6	1000.6	997.9	995.3	991.4
5°	994.0	995.3	994.0	992.7	991.4
7.5°	986.1	987.4	987.4	987.4	987.4
10°	976.9	978.2	978.2	978.2	978.2
12.5°	963.7	965.0	966.3	967.7	970.3
15°	944.0	947.9	950.5	955.8	958.4
17.5°	924.2	928.2	932.1	938.7	944.0
20°	901.8	904.5	911.0	918.9	924.2
22.5°	876.8	880.8	887.4	897.9	905.8
25°	847.9	853.1	862.3	876.8	883.4
27.5°	820.2	824.2	836.0	851.8	861.0
30°	787.3	792.6	807.0	826.8	836.0
32.5°	754.4	761.0	776.8	799.1	809.7
35°	720.1	728.0	746.5	770.2	783.3
37.5°	685.9	693.8	714.9	741.2	755.7
40°	650.4	658.3	682.0	710.9	726.7
42.5°	613.5	622.7	649.1	682.0	700.4
45°	576.6	585.9	614.8	651.7	671.4
47.5°	538.5	549.0	580.6	621.4	641.2
50°	500.3	512.1	547.7	589.8	609.6
52.5°	462.1	475.3	513.5	556.9	578.0
55°	425.2	439.7	480.5	524.0	543.7
57.5°	385.7	402.9	446.3	488.4	510.8
60°	348.9	367.3	412.1	454.2	477.9
62.5°	312.0	331.8	379.2	421.3	443.7
65°	276.5	296.2	343.6	387.1	409.4
67.5°	240.9	263.3	309.4	352.8	375.2
70°	206.7	230.4	275.2	317.3	339.7
72.5°	173.8	197.5	242.2	281.7	294.9
75°	140.9	164.6	206.7	230.4	238.3
77.5°	110.6	133.0	169.8	184.3	194.8
80°	82.9	102.7	129.0	138.2	139.6
82.5°	56.6	73.7	89.5	90.8	89.5
85°	34.2	43.4	48.7	46.1	43.4
87.5°	15.8	17.1	15.8	10.5	6.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)