

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: P259504

Luminaire Tested: **22CZ-LD5-24-S-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259504
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-LD5-24-S-UNV-L92765-W2A1-U-5000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2298.0 lumens
Efficiency: N/A
Efficacy: 128.0 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

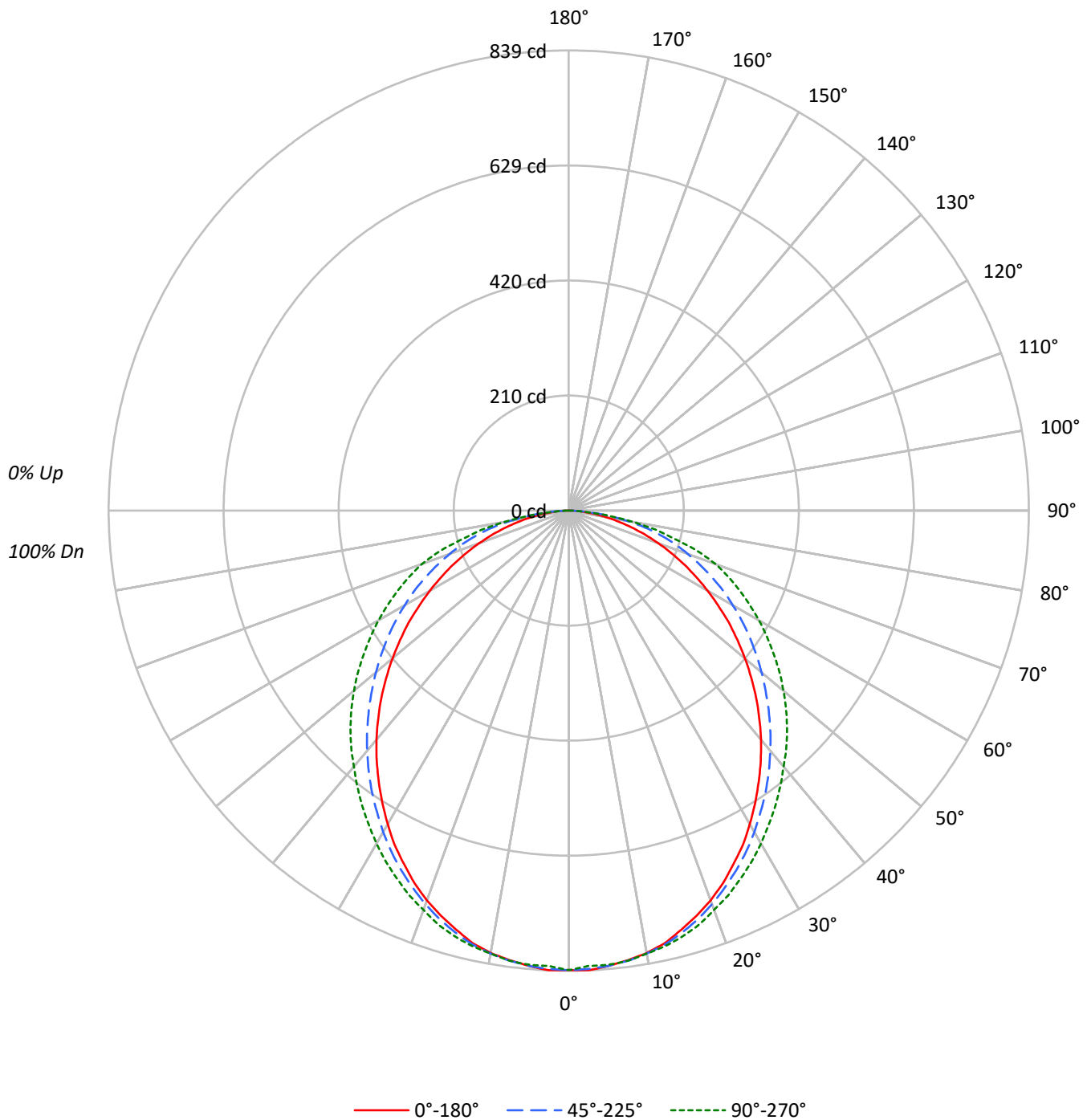
Input Watts (W): 17.949
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2255	2255	2255
5°	2251	2251	2245
10°	2238	2241	2241
15°	2205	2220	2238
20°	2165	2187	2219
25°	2110	2147	2199
30°	2051	2102	2178
35°	1984	2056	2157
40°	1916	2008	2140
45°	1840	1962	2142
50°	1756	1922	2139
55°	1673	1890	2139
60°	1574	1859	2157
65°	1476	1834	2186
70°	1364	1815	2241
75°	1228	1802	2077
80°	1077	1677	1813
85°	886	1260	1124



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.1	3.4
10°-20°	224.7	9.8
20°-30°	333.8	14.5
30°-40°	392.9	17.1
40°-50°	400.6	17.4
50°-60°	361.3	15.7
60°-70°	284.6	12.4
70°-80°	175.5	7.6
80°-90°	45.6	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°	637.6	27.7
0°-40°	1030.5	44.8
0°-60°	1792.4	78.0
0°-90°	2298.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2298.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	838	838	838	838	838	
5°	833	834	833	832	831	79
15°	791	795	797	801	804	223
25°	711	715	723	735	741	328
35°	604	610	626	646	657	378
45°	483	491	516	546	563	373
55°	356	369	403	439	456	318
65°	232	248	288	324	343	230
75°	118	138	173	193	200	126
85°	29	36	41	39	36	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	837.8	837.8	837.8	837.8	837.8
2.5°	838.9	838.9	836.7	834.4	831.1
5°	833.3	834.4	833.3	832.2	831.1
7.5°	826.7	827.8	827.8	827.8	827.8
10°	819.0	820.1	820.1	820.1	820.1
12.5°	808.0	809.1	810.2	811.3	813.5
15°	791.4	794.7	796.9	801.3	803.5
17.5°	774.8	778.2	781.5	787.0	791.4
20°	756.1	758.3	763.8	770.4	774.8
22.5°	735.1	738.4	743.9	752.8	759.4
25°	710.8	715.2	723.0	735.1	740.6
27.5°	687.6	691.0	700.9	714.1	721.9
30°	660.1	664.5	676.6	693.2	700.9
32.5°	632.5	638.0	651.2	670.0	678.8
35°	603.8	610.4	625.8	645.7	656.7
37.5°	575.1	581.7	599.3	621.4	633.6
40°	545.3	551.9	571.7	596.0	609.3
42.5°	514.4	522.1	544.2	571.7	587.2
45°	483.4	491.2	515.5	546.4	562.9
47.5°	451.4	460.3	486.8	521.0	537.5
50°	419.4	429.4	459.2	494.5	511.0
52.5°	387.4	398.5	430.5	466.9	484.6
55°	356.5	368.7	402.9	439.3	455.9
57.5°	323.4	337.8	374.2	409.5	428.3
60°	292.5	308.0	345.5	380.8	400.7
62.5°	261.6	278.1	317.9	353.2	372.0
65°	231.8	248.3	288.1	324.5	343.3
67.5°	202.0	220.8	259.4	295.8	314.6
70°	173.3	193.2	230.7	266.0	284.8
72.5°	145.7	165.6	203.1	236.2	247.2
75°	118.1	138.0	173.3	193.2	199.8
77.5°	92.7	111.5	142.4	154.5	163.4
80°	69.5	86.1	108.2	115.9	117.0
82.5°	47.5	61.8	75.1	76.2	75.1
85°	28.7	36.4	40.8	38.6	36.4
87.5°	13.2	14.3	13.2	8.8	5.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)