

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: P259333

Luminaire Tested: **22CZ-LD5-24-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259333
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-LD5-24-UNV-L92765-W2A1-U-3500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2085.0 lumens
Efficiency: N/A
Efficacy: 118.6 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

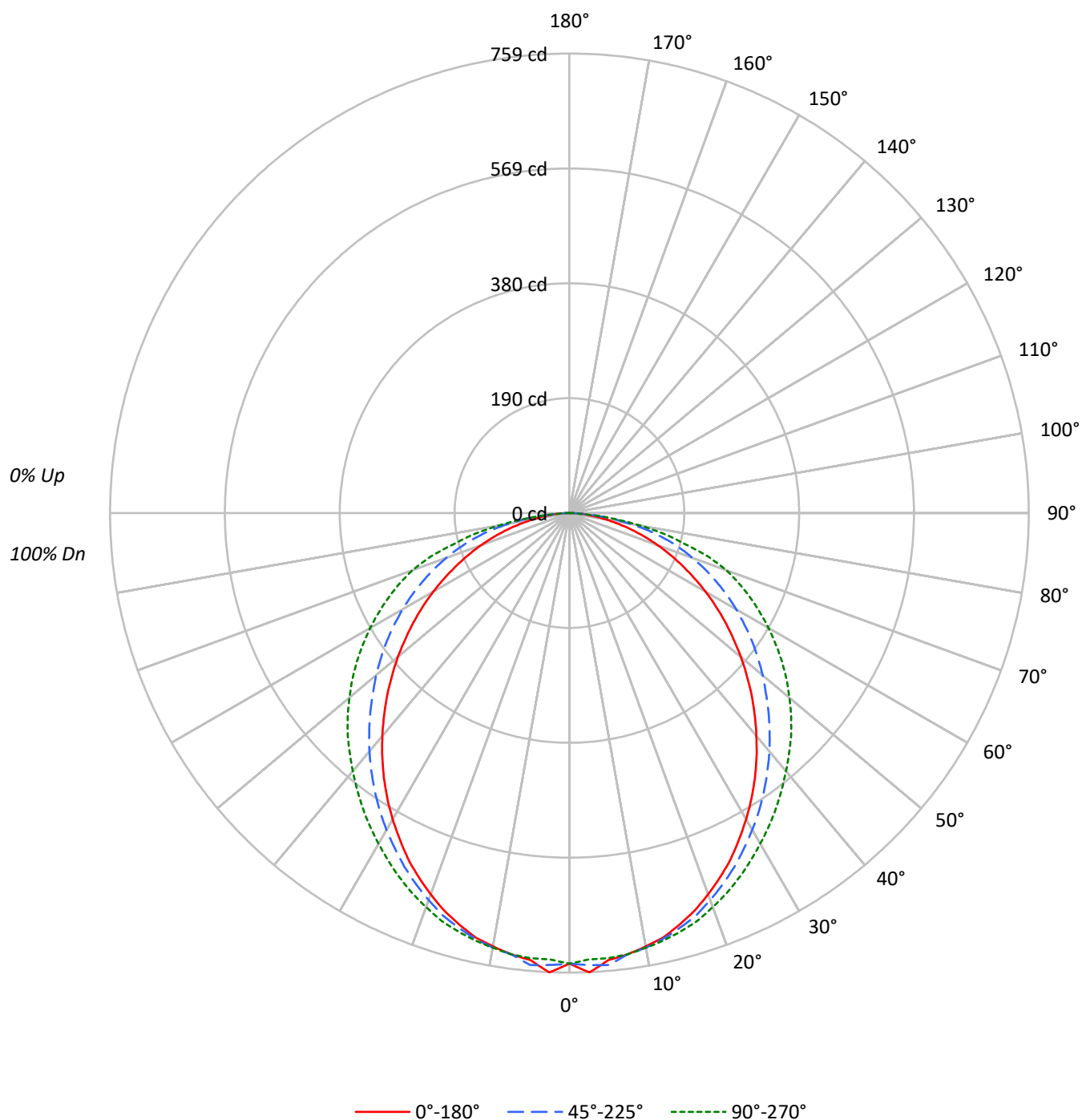
Input Watts (W): 17.577
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2003	2003	2003
5°	2002	2024	1994
10°	1987	1992	1992
15°	1960	1974	1991
20°	1919	1948	1983
25°	1872	1915	1972
30°	1815	1878	1959
35°	1755	1842	1955
40°	1688	1806	1955
45°	1620	1771	1972
50°	1549	1744	1986
55°	1475	1727	2012
60°	1397	1714	2046
65°	1310	1705	2098
70°	1220	1699	2170
75°	1107	1697	2056
80°	958	1571	1822
85°	815	1189	1158



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.6	3.4
10°-20°	199.9	9.6
20°-30°	297.4	14.3
30°-40°	351.8	16.9
40°-50°	361.6	17.3
50°-60°	330.4	15.8
60°-70°	264.3	12.7
70°-80°	165.9	8.0
80°-90°	43.2	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°	567.9	27.2
0°-40°	919.7	44.1
0°-60°	1611.7	77.3
0°-90°	2085.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2085.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	744	744	744	744	744	
5°	741	741	749	744	738	70
15°	704	705	709	713	715	198
25°	631	635	645	656	664	290
35°	534	541	561	582	595	334
45°	426	437	465	500	518	328
55°	314	330	368	409	429	281
65°	206	224	268	308	330	204
75°	106	127	163	188	198	113
85°	26	34	38	38	38	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	744.2	744.2	744.2	744.2	744.2
2.5°	759.4	756.4	747.2	741.2	738.1
5°	741.2	741.2	749.3	744.2	738.1
7.5°	735.1	735.1	735.1	750.3	735.1
10°	727.0	728.0	729.0	735.1	729.0
12.5°	717.8	717.8	719.9	721.9	722.9
15°	703.7	704.7	708.7	712.8	714.8
17.5°	688.4	691.5	696.6	701.6	705.7
20°	670.2	674.2	680.3	688.4	692.5
22.5°	650.9	655.0	663.1	672.2	679.3
25°	630.6	634.7	644.8	656.0	664.1
27.5°	607.3	612.4	624.6	639.8	647.9
30°	584.0	590.1	604.3	621.5	630.6
32.5°	559.7	566.8	583.0	602.3	613.4
35°	534.3	541.4	560.7	582.0	595.2
37.5°	508.0	516.1	537.4	561.7	575.9
40°	480.6	489.7	514.1	540.4	556.6
42.5°	453.2	463.4	489.7	521.1	537.4
45°	425.8	437.0	465.4	499.9	518.1
47.5°	397.5	410.6	440.0	478.6	496.8
50°	370.1	383.3	416.7	456.3	474.5
52.5°	341.7	356.9	392.4	432.9	452.2
55°	314.3	329.5	368.0	408.6	428.9
57.5°	286.9	302.1	342.7	384.3	404.5
60°	259.6	275.8	318.4	358.9	380.2
62.5°	232.2	249.4	293.0	334.6	354.9
65°	205.8	224.1	267.7	308.2	329.5
67.5°	180.5	199.7	242.3	281.9	303.2
70°	155.1	174.4	216.0	254.5	275.8
72.5°	130.8	150.1	190.6	225.1	241.3
75°	106.5	126.7	163.2	187.6	197.7
77.5°	83.1	103.4	134.8	151.1	162.2
80°	61.8	79.1	101.4	113.6	117.6
82.5°	42.6	56.8	71.0	74.0	76.0
85°	26.4	33.5	38.5	37.5	37.5
87.5°	12.2	13.2	11.2	8.1	5.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)