

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: P259499

Luminaire Tested: **22CZ-LD5-24-S-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259499
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-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: 1948.0 lumens
Efficiency: N/A
Efficacy: 110.8 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

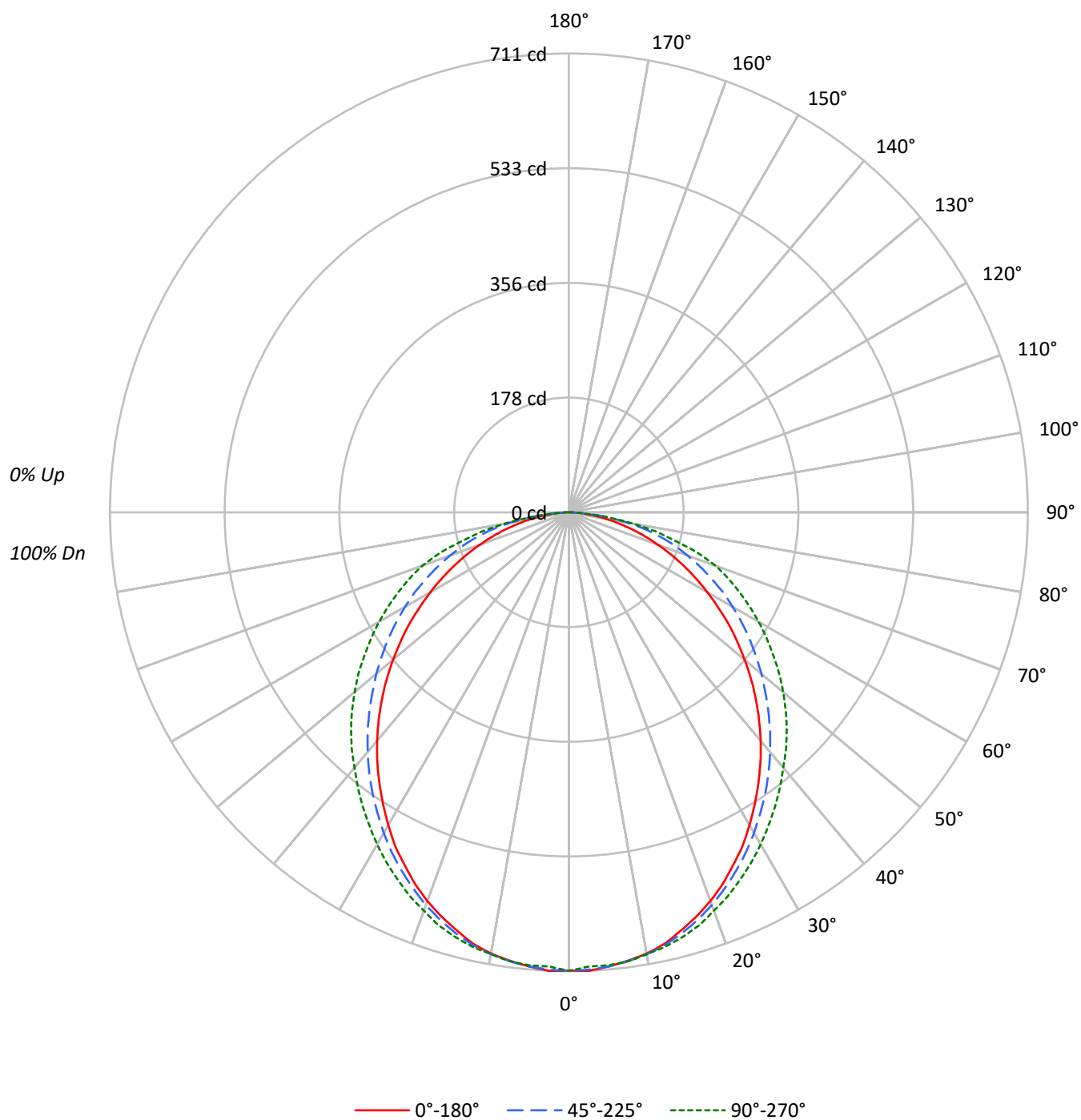
Input Watts (W): 17.577
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1911	1911	1911
5°	1908	1908	1903
10°	1897	1900	1900
15°	1869	1882	1898
20°	1835	1854	1881
25°	1789	1820	1864
30°	1739	1782	1846
35°	1681	1743	1829
40°	1624	1703	1814
45°	1560	1663	1816
50°	1488	1629	1814
55°	1418	1602	1813
60°	1334	1576	1828
65°	1251	1555	1853
70°	1156	1539	1899
75°	1041	1527	1761
80°	913	1421	1537
85°	750	1068	954



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.1	3.4
10°-20°	190.5	9.8
20°-30°	283.0	14.5
30°-40°	333.1	17.1
40°-50°	339.6	17.4
50°-60°	306.2	15.7
60°-70°	241.2	12.4
70°-80°	148.8	7.6
80°-90°	38.6	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°	540.5	27.7
0°-40°	873.6	44.8
0°-60°	1519.4	78.0
0°-90°	1948.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1948.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	710	710	710	710	710	
5°	706	707	706	706	704	67
15°	671	674	676	679	681	189
25°	603	606	613	623	628	278
35°	512	517	530	547	557	320
45°	410	416	437	463	477	316
55°	302	312	342	372	386	270
65°	196	210	244	275	291	195
75°	100	117	147	164	169	107
85°	24	31	35	33	31	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	710.2	710.2	710.2	710.2	710.2
2.5°	711.1	711.1	709.2	707.4	704.5
5°	706.4	707.4	706.4	705.5	704.5
7.5°	700.8	701.7	701.7	701.7	701.7
10°	694.3	695.2	695.2	695.2	695.2
12.5°	684.9	685.8	686.8	687.7	689.6
15°	670.9	673.7	675.5	679.3	681.2
17.5°	656.8	659.6	662.4	667.1	670.9
20°	640.9	642.8	647.5	653.1	656.8
22.5°	623.1	626.0	630.6	638.1	643.7
25°	602.6	606.3	612.9	623.1	627.8
27.5°	582.9	585.7	594.1	605.4	611.9
30°	559.5	563.3	573.6	587.6	594.1
32.5°	536.1	540.8	552.0	567.9	575.4
35°	511.8	517.4	530.5	547.4	556.7
37.5°	487.5	493.1	508.1	526.8	537.1
40°	462.2	467.8	484.7	505.3	516.5
42.5°	436.0	442.6	461.3	484.7	497.8
45°	409.8	416.4	437.0	463.1	477.2
47.5°	382.7	390.2	412.6	441.6	455.7
50°	355.5	364.0	389.2	419.2	433.2
52.5°	328.4	337.8	364.9	395.8	410.8
55°	302.2	312.5	341.5	372.4	386.4
57.5°	274.1	286.3	317.2	347.1	363.0
60°	247.9	261.0	292.9	322.8	339.6
62.5°	221.7	235.8	269.5	299.4	315.3
65°	196.5	210.5	244.2	275.1	291.0
67.5°	171.2	187.1	219.9	250.8	266.7
70°	146.9	163.7	195.6	225.5	241.4
72.5°	123.5	140.3	172.2	200.2	209.6
75°	100.1	117.0	146.9	163.7	169.4
77.5°	78.6	94.5	120.7	131.0	138.5
80°	58.9	73.0	91.7	98.2	99.2
82.5°	40.2	52.4	63.6	64.6	63.6
85°	24.3	30.9	34.6	32.7	30.9
87.5°	11.2	12.2	11.2	7.5	4.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)