

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: P259490

Luminaire Tested: **22CZ-LD5-20-S-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259490
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-LD5-20-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: 1727.0 lumens
Efficiency: N/A
Efficacy: 111.2 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

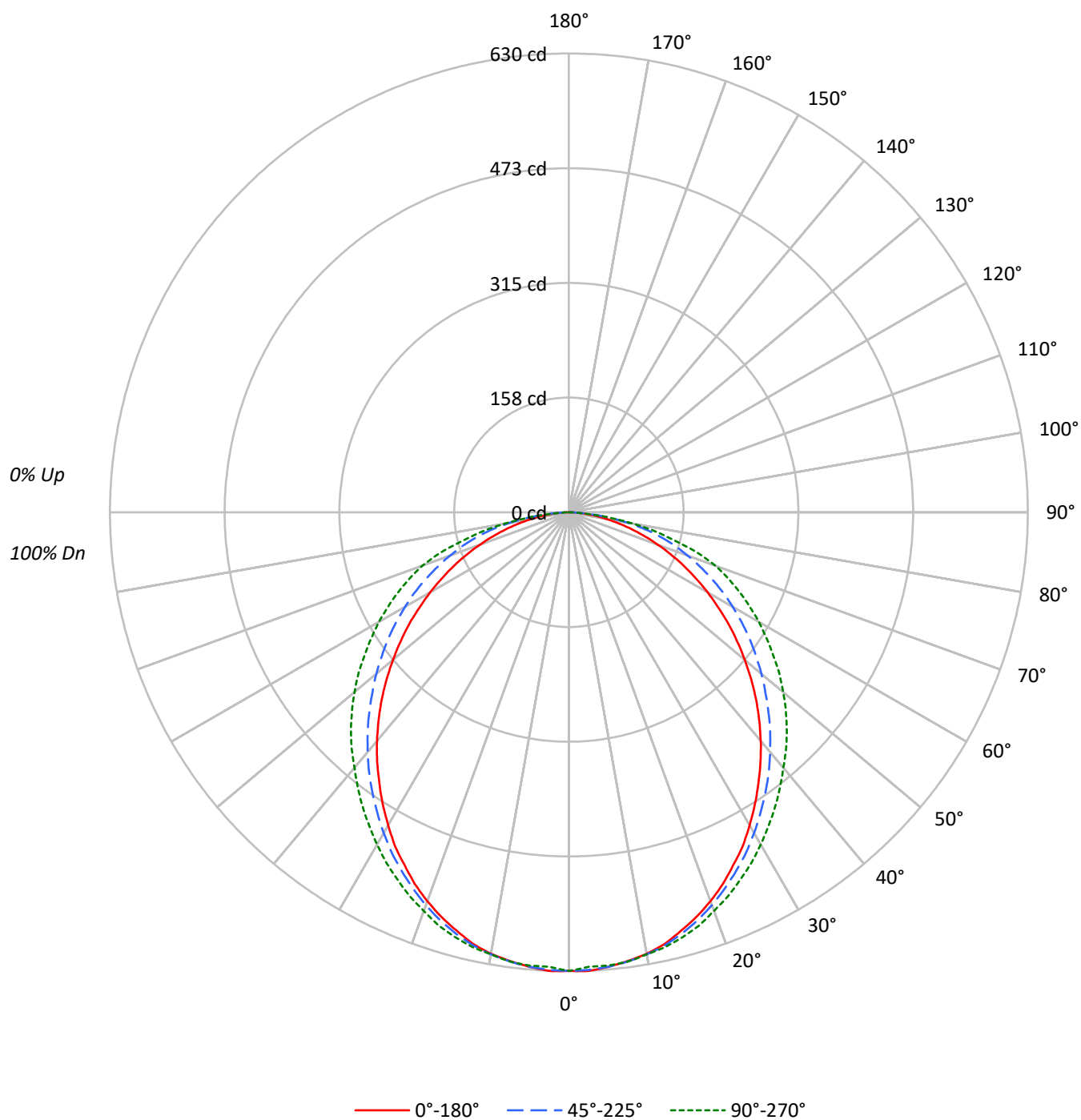
Input Watts (W): 15.531
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1694	1694	1694
5°	1692	1692	1687
10°	1682	1684	1684
15°	1657	1668	1682
20°	1627	1644	1668
25°	1586	1613	1653
30°	1541	1580	1637
35°	1490	1545	1622
40°	1440	1509	1609
45°	1383	1474	1610
50°	1320	1445	1608
55°	1257	1421	1607
60°	1183	1397	1621
65°	1109	1379	1643
70°	1024	1364	1684
75°	923	1354	1561
80°	810	1260	1362
85°	667	948	846



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.4	3.4
10°-20°	168.9	9.8
20°-30°	250.8	14.5
30°-40°	295.3	17.1
40°-50°	301.0	17.4
50°-60°	271.5	15.7
60°-70°	213.8	12.4
70°-80°	131.9	7.6
80°-90°	34.2	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°	479.2	27.7
0°-40°	774.5	44.8
0°-60°	1347.0	78.0
0°-90°	1727.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1727.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	630	630	630	630	630	
5°	626	627	626	625	625	59
15°	595	597	599	602	604	168
25°	534	538	543	552	557	246
35°	454	459	470	485	494	284
45°	363	369	387	411	423	280
55°	268	277	303	330	343	239
65°	174	187	216	244	258	173
75°	89	104	130	145	150	95
85°	22	27	31	29	27	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	629.6	629.6	629.6	629.6	629.6
2.5°	630.4	630.4	628.8	627.1	624.6
5°	626.3	627.1	626.3	625.4	624.6
7.5°	621.3	622.1	622.1	622.1	622.1
10°	615.5	616.3	616.3	616.3	616.3
12.5°	607.2	608.0	608.9	609.7	611.3
15°	594.8	597.2	598.9	602.2	603.9
17.5°	582.3	584.8	587.3	591.4	594.8
20°	568.2	569.9	574.0	579.0	582.3
22.5°	552.4	554.9	559.1	565.7	570.7
25°	534.2	537.5	543.3	552.4	556.6
27.5°	516.8	519.3	526.7	536.7	542.5
30°	496.0	499.4	508.5	520.9	526.7
32.5°	475.3	479.5	489.4	503.5	510.1
35°	453.7	458.7	470.3	485.3	493.6
37.5°	432.2	437.1	450.4	467.0	476.1
40°	409.8	414.8	429.7	447.9	457.9
42.5°	386.5	392.4	408.9	429.7	441.3
45°	363.3	369.1	387.4	410.6	423.0
47.5°	339.3	345.9	365.8	391.5	404.0
50°	315.2	322.7	345.1	371.6	384.1
52.5°	291.2	299.5	323.5	350.9	364.2
55°	267.9	277.1	302.8	330.1	342.6
57.5°	243.0	253.8	281.2	307.7	321.8
60°	219.8	231.4	259.6	286.2	301.1
62.5°	196.6	209.0	238.9	265.4	279.5
65°	174.2	186.6	216.5	243.9	258.0
67.5°	151.8	165.9	194.9	222.3	236.4
70°	130.2	145.2	173.4	199.9	214.0
72.5°	109.5	124.4	152.6	177.5	185.8
75°	88.8	103.7	130.2	145.2	150.1
77.5°	69.7	83.8	107.0	116.1	122.8
80°	52.3	64.7	81.3	87.1	87.9
82.5°	35.7	46.5	56.4	57.2	56.4
85°	21.6	27.4	30.7	29.0	27.4
87.5°	10.0	10.8	10.0	6.6	4.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)