

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: P259441

Luminaire Tested: **22CZ-LD5-20-S-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259441
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-L82765-W2A1-U-5000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2268.0 lumens
Efficiency: N/A
Efficacy: 142.6 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

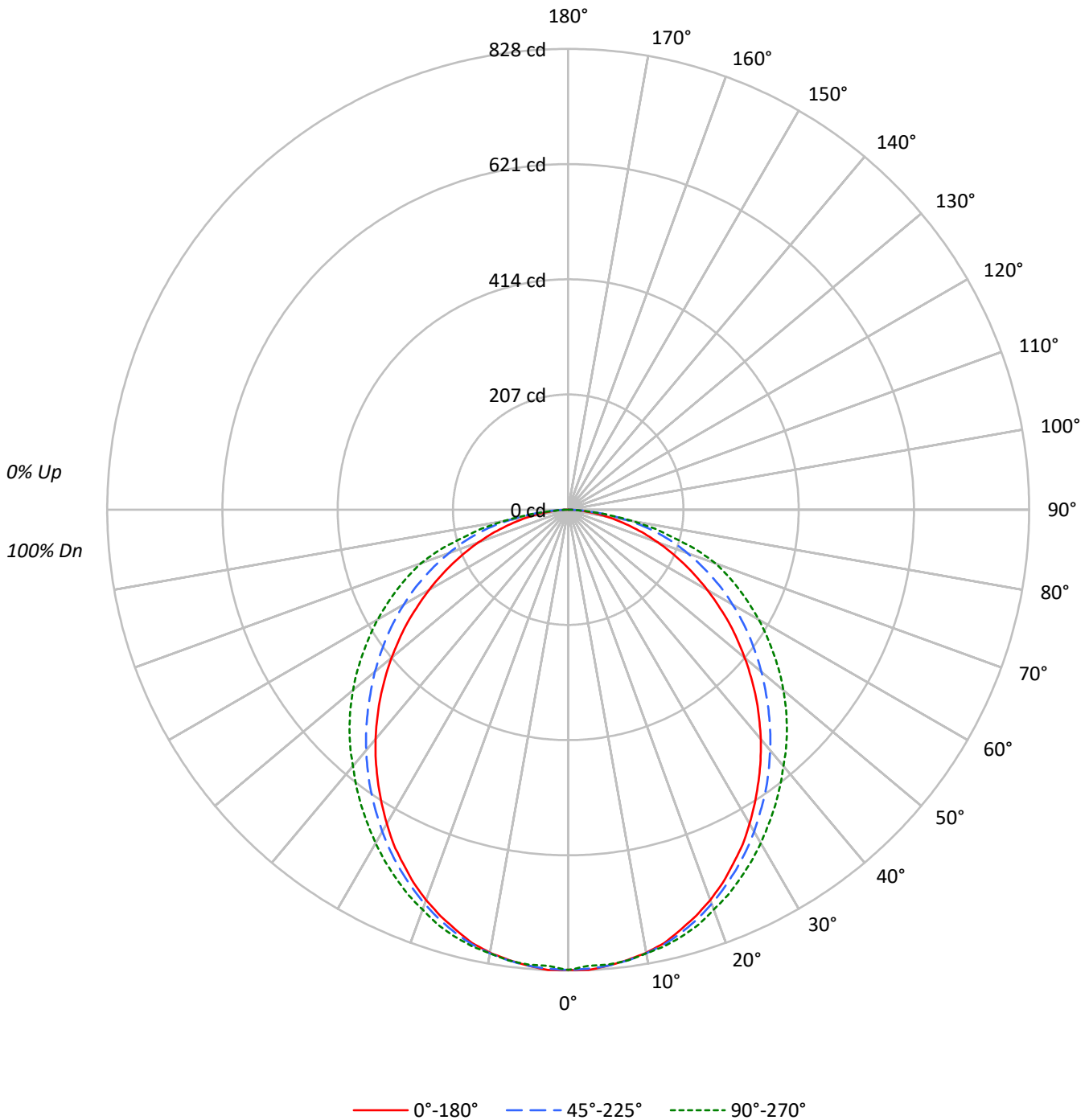
Input Watts (W): 15.903
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83
2	99	90	83	77	96	88	82	77	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	62	69	64	60	58
4	82	70	61	54	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43
6	70	56	47	41	68	56	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	26	52	39	32	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2225	2225	2225
5°	2222	2222	2216
10°	2209	2212	2212
15°	2176	2191	2210
20°	2137	2159	2190
25°	2083	2119	2170
30°	2024	2075	2149
35°	1958	2029	2129
40°	1890	1982	2112
45°	1816	1936	2114
50°	1733	1897	2112
55°	1651	1865	2111
60°	1554	1835	2128
65°	1457	1810	2157
70°	1345	1792	2212
75°	1212	1778	2050
80°	1063	1655	1790
85°	874	1244	1108



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.1	3.4
10°-20°	221.8	9.8
20°-30°	329.4	14.5
30°-40°	387.8	17.1
40°-50°	395.3	17.4
50°-60°	356.5	15.7
60°-70°	280.8	12.4
70°-80°	173.2	7.6
80°-90°	45.0	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°	629.3	27.7
0°-40°	1017.1	44.8
0°-60°	1769.0	78.0
0°-90°	2268.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2268.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	827	827	827	827	827	
5°	822	824	822	821	820	78
15°	781	784	786	791	793	220
25°	702	706	714	726	731	323
35°	596	602	618	637	648	373
45°	477	485	509	539	556	368
55°	352	364	398	434	450	314
65°	229	245	284	320	339	227
75°	117	136	171	191	197	124
85°	28	36	40	38	36	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	826.8	826.8	826.8	826.8	826.8
2.5°	827.9	827.9	825.7	823.6	820.3
5°	822.5	823.6	822.5	821.4	820.3
7.5°	815.9	817.0	817.0	817.0	817.0
10°	808.3	809.4	809.4	809.4	809.4
12.5°	797.4	798.5	799.6	800.7	802.9
15°	781.1	784.3	786.5	790.9	793.1
17.5°	764.7	768.0	771.3	776.7	781.1
20°	746.2	748.4	753.8	760.4	764.7
22.5°	725.5	728.8	734.2	742.9	749.5
25°	701.5	705.9	713.5	725.5	731.0
27.5°	678.7	681.9	691.7	704.8	712.4
30°	651.4	655.8	667.8	684.1	691.7
32.5°	624.2	629.6	642.7	661.2	670.0
35°	595.9	602.4	617.7	637.3	648.2
37.5°	567.6	574.1	591.5	613.3	625.3
40°	538.1	544.7	564.3	588.3	601.3
42.5°	507.6	515.3	537.1	564.3	579.5
45°	477.1	484.8	508.7	539.2	555.6
47.5°	445.5	454.3	480.4	514.2	530.5
50°	414.0	423.8	453.2	488.0	504.4
52.5°	382.4	393.3	424.8	460.8	478.2
55°	351.9	363.8	397.6	433.6	449.9
57.5°	319.2	333.3	369.3	404.2	422.7
60°	288.7	303.9	341.0	375.8	395.4
62.5°	258.2	274.5	313.7	348.6	367.1
65°	228.8	245.1	284.3	320.3	338.8
67.5°	199.4	217.9	256.0	291.9	310.5
70°	171.0	190.6	227.7	262.5	281.1
72.5°	143.8	163.4	200.4	233.1	244.0
75°	116.6	136.2	171.0	190.6	197.2
77.5°	91.5	110.0	140.5	152.5	161.2
80°	68.6	85.0	106.8	114.4	115.5
82.5°	46.8	61.0	74.1	75.2	74.1
85°	28.3	35.9	40.3	38.1	35.9
87.5°	13.1	14.2	13.1	8.7	5.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)