

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: P259438

Luminaire Tested: **22CZ-LD5-20-S-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259438
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-3500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2152.0 lumens
Efficiency: N/A
Efficacy: 137.7 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

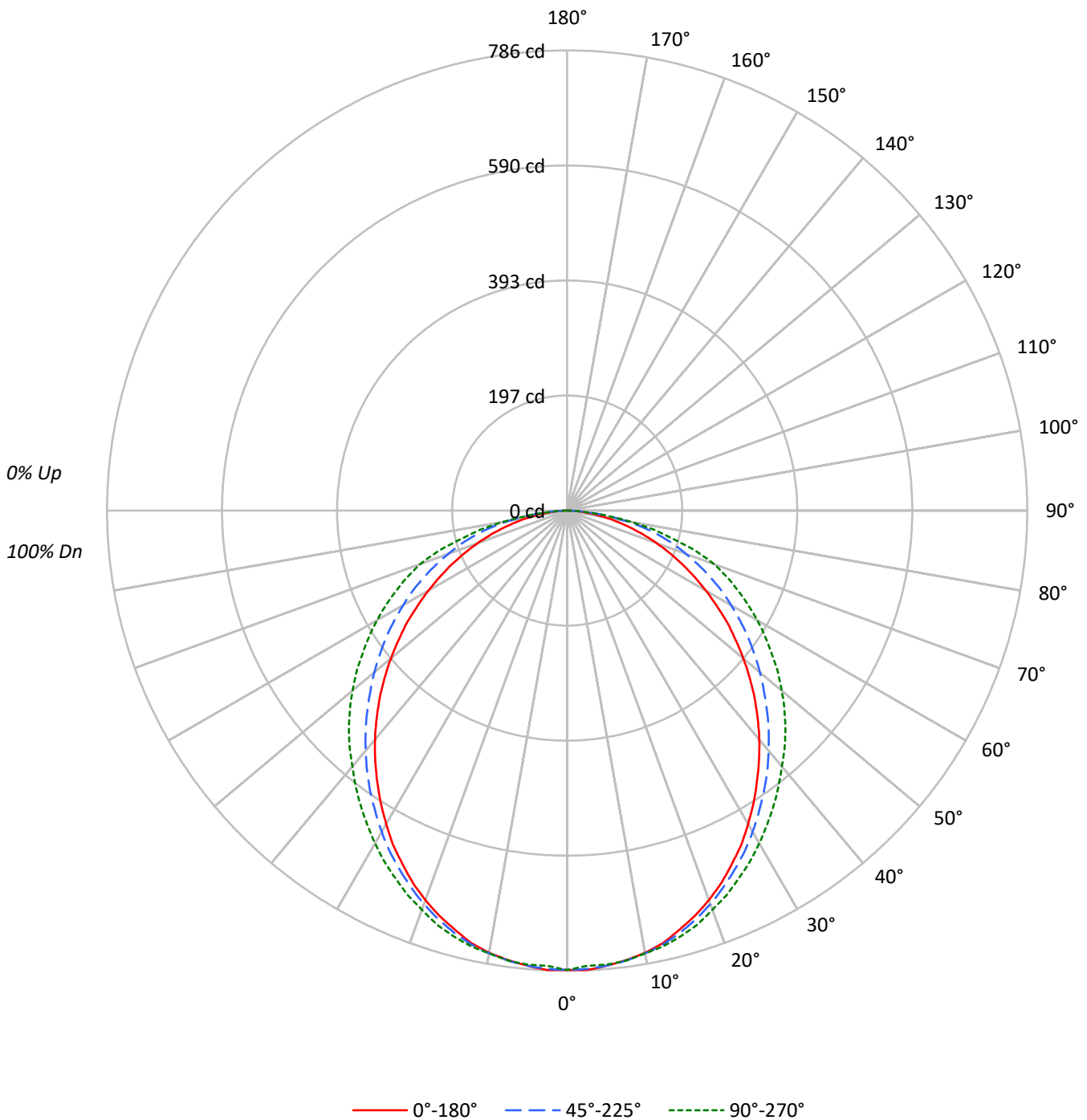
Input Watts (W): 15.624
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2111	2111	2111
5°	2108	2108	2102
10°	2096	2099	2099
15°	2065	2079	2096
20°	2027	2048	2078
25°	1977	2010	2059
30°	1921	1969	2040
35°	1857	1925	2020
40°	1794	1881	2004
45°	1723	1837	2006
50°	1644	1800	2004
55°	1567	1770	2003
60°	1474	1741	2019
65°	1382	1718	2047
70°	1277	1699	2098
75°	1150	1687	1945
80°	1009	1570	1698
85°	831	1179	1053



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.1	3.4
10°-20°	210.5	9.8
20°-30°	312.6	14.5
30°-40°	367.9	17.1
40°-50°	375.1	17.4
50°-60°	338.3	15.7
60°-70°	266.5	12.4
70°-80°	164.4	7.6
80°-90°	42.7	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°	597.1	27.7
0°-40°	965.1	44.8
0°-60°	1678.5	78.0
0°-90°	2152.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2152.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	784	784	784	784	784	
5°	780	781	780	779	778	74
15°	741	744	746	750	752	209
25°	666	670	677	688	694	307
35°	565	572	586	605	615	354
45°	453	460	483	512	527	349
55°	334	345	377	411	427	298
65°	217	233	270	304	322	215
75°	111	129	162	181	187	118
85°	27	34	38	36	34	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	784.5	784.5	784.5	784.5	784.5
2.5°	785.6	785.6	783.5	781.4	778.3
5°	780.4	781.4	780.4	779.4	778.3
7.5°	774.2	775.2	775.2	775.2	775.2
10°	767.0	768.0	768.0	768.0	768.0
12.5°	756.6	757.7	758.7	759.7	761.8
15°	741.1	744.2	746.3	750.4	752.5
17.5°	725.6	728.7	731.8	737.0	741.1
20°	708.0	710.1	715.3	721.5	725.6
22.5°	688.4	691.5	696.7	704.9	711.1
25°	665.7	669.8	677.0	688.4	693.6
27.5°	644.0	647.1	656.4	668.8	676.0
30°	618.1	622.3	633.6	649.1	656.4
32.5°	592.3	597.4	609.8	627.4	635.7
35°	565.4	571.6	586.1	604.7	615.0
37.5°	538.5	544.7	561.3	581.9	593.3
40°	510.6	516.8	535.4	558.2	570.6
42.5°	481.7	488.9	509.6	535.4	549.9
45°	452.7	460.0	482.7	511.7	527.2
47.5°	422.8	431.0	455.8	487.9	503.4
50°	392.8	402.1	430.0	463.1	478.6
52.5°	362.8	373.1	403.1	437.2	453.8
55°	333.9	345.2	377.3	411.4	426.9
57.5°	302.9	316.3	350.4	383.5	401.1
60°	273.9	288.4	323.5	356.6	375.2
62.5°	245.0	260.5	297.7	330.8	348.3
65°	217.1	232.6	269.8	303.9	321.5
67.5°	189.2	206.7	242.9	277.0	294.6
70°	162.3	180.9	216.0	249.1	266.7
72.5°	136.4	155.0	190.2	221.2	231.5
75°	110.6	129.2	162.3	180.9	187.1
77.5°	86.8	104.4	133.3	144.7	153.0
80°	65.1	80.6	101.3	108.5	109.6
82.5°	44.4	57.9	70.3	71.3	70.3
85°	26.9	34.1	38.2	36.2	34.1
87.5°	12.4	13.4	12.4	8.3	5.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)