

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: P259268

Luminaire Tested: **22CZ-LD5-20-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259268
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-LD5-20-UNV-L82765-W2A1-U-2700K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED AT 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1982.0 lumens
Efficiency: N/A
Efficacy: 127.6 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

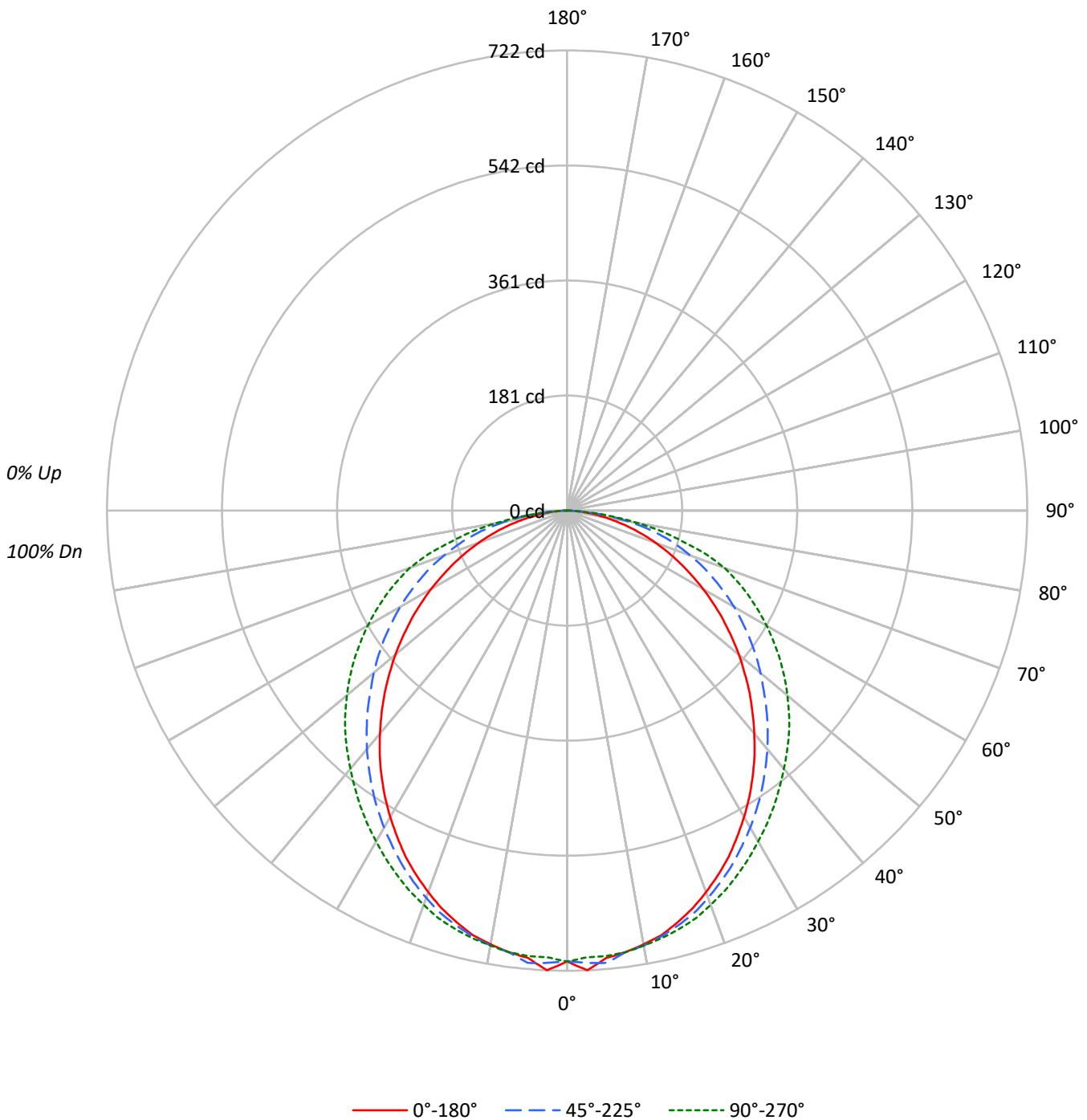
Input Watts (W): 15.531
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	90	79	70	64	87	77	69	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1904	1904	1904
5°	1903	1924	1895
10°	1888	1894	1894
15°	1863	1877	1893
20°	1824	1852	1885
25°	1780	1820	1874
30°	1725	1785	1863
35°	1668	1751	1859
40°	1605	1717	1859
45°	1541	1684	1874
50°	1473	1658	1888
55°	1402	1642	1913
60°	1328	1629	1945
65°	1246	1620	1994
70°	1161	1615	2063
75°	1052	1614	1954
80°	911	1494	1733
85°	775	1130	1102



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.1	3.4
10°-20°	190.1	9.6
20°-30°	282.7	14.3
30°-40°	334.4	16.9
40°-50°	343.7	17.3
50°-60°	314.1	15.8
60°-70°	251.2	12.7
70°-80°	157.7	8.0
80°-90°	41.1	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°	539.9	27.2
0°-40°	874.3	44.1
0°-60°	1532.0	77.3
0°-90°	1982.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1982.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	707	707	707	707	707	
5°	705	705	712	707	702	67
15°	669	670	674	678	680	188
25°	600	603	613	624	631	276
35°	508	515	533	553	566	317
45°	405	415	442	475	492	312
55°	299	313	350	388	408	267
65°	196	213	254	293	313	194
75°	101	120	155	178	188	107
85°	25	32	37	36	36	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	707.4	707.4	707.4	707.4	707.4
2.5°	721.9	719.0	710.3	704.6	701.7
5°	704.6	704.6	712.3	707.4	701.7
7.5°	698.8	698.8	698.8	713.2	698.8
10°	691.1	692.0	693.0	698.8	693.0
12.5°	682.4	682.4	684.3	686.2	687.2
15°	668.9	669.9	673.7	677.6	679.5
17.5°	654.4	657.3	662.1	667.0	670.8
20°	637.1	640.9	646.7	654.4	658.3
22.5°	618.8	622.6	630.3	639.0	645.8
25°	599.5	603.4	613.0	623.6	631.3
27.5°	577.3	582.1	593.7	608.2	615.9
30°	555.2	560.9	574.4	590.8	599.5
32.5°	532.0	538.8	554.2	572.5	583.1
35°	507.9	514.7	533.0	553.2	565.8
37.5°	482.9	490.6	510.8	534.0	547.4
40°	456.8	465.5	488.7	513.7	529.1
42.5°	430.8	440.5	465.5	495.4	510.8
45°	404.8	415.4	442.4	475.2	492.5
47.5°	377.8	390.3	418.3	454.9	472.3
50°	351.8	364.3	396.1	433.7	451.1
52.5°	324.8	339.3	373.0	411.6	429.9
55°	298.8	313.2	349.9	388.4	407.7
57.5°	272.8	287.2	325.8	365.3	384.6
60°	246.7	262.2	302.6	341.2	361.4
62.5°	220.7	237.1	278.5	318.1	337.3
65°	195.7	213.0	254.4	293.0	313.2
67.5°	171.6	189.9	230.4	267.9	288.2
70°	147.5	165.8	205.3	241.9	262.2
72.5°	124.3	142.6	181.2	214.0	229.4
75°	101.2	120.5	155.2	178.3	187.9
77.5°	79.0	98.3	128.2	143.6	154.2
80°	58.8	75.2	96.4	107.9	111.8
82.5°	40.5	54.0	67.5	70.4	72.3
85°	25.1	31.8	36.6	35.7	35.7
87.5°	11.6	12.5	10.6	7.7	4.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)