

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: P260464

Luminaire Tested: **22CZ-LD5-29-RDP-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260464
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25714)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-29-RDP-UNV-L82765-W2A1-U-3500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2052.0 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

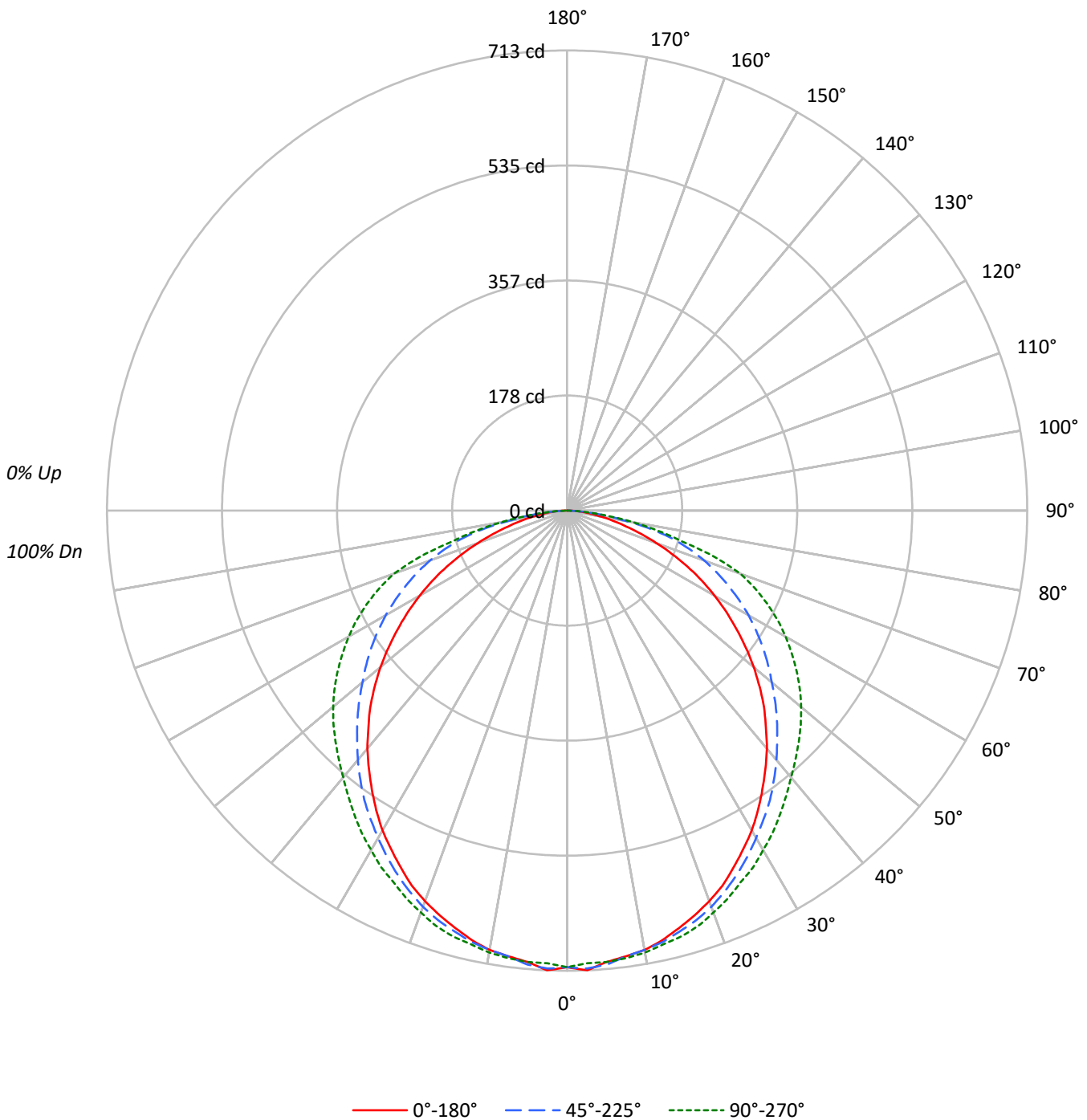
Input Watts (W): 20.925
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	81	76	84	79	74	81	77	73	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	37	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	36	30	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1904	1904	1904
5°	1896	1907	1896
10°	1889	1889	1900
15°	1865	1880	1903
20°	1844	1871	1898
25°	1811	1847	1888
30°	1778	1820	1887
35°	1733	1800	1889
40°	1692	1773	1896
45°	1642	1750	1931
50°	1580	1733	1982
55°	1504	1739	2037
60°	1420	1747	2104
65°	1309	1757	2179
70°	1160	1777	2245
75°	985	1772	1913
80°	818	1426	1593
85°	710	960	920



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.8	3.3
10°-20°	190.7	9.3
20°-30°	286.8	14.0
30°-40°	343.7	16.8
40°-50°	358.5	17.5
50°-60°	333.7	16.3
60°-70°	271.0	13.2
70°-80°	163.3	8.0
80°-90°	37.5	1.8
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°	544.3	26.5
0°-40°	888.1	43.3
0°-60°	1580.3	77.0
0°-90°	2052.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2052.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	708	708	708	708	708	
5°	702	702	706	708	702	67
15°	670	672	675	679	683	189
25°	610	614	622	630	636	281
35°	528	534	548	564	575	330
45°	432	440	460	490	507	332
55°	321	334	371	411	434	287
65°	206	227	276	319	342	203
75°	95	126	170	181	184	102
85°	23	28	31	30	30	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	707.5	707.5	707.5	707.5	707.5
2.5°	712.9	711.5	710.2	706.1	702.0
5°	702.0	702.0	706.1	707.5	702.0
7.5°	696.6	696.6	696.6	702.0	699.3
10°	691.2	691.2	691.2	695.3	695.3
12.5°	681.8	683.1	684.5	685.8	688.5
15°	669.6	672.3	675.0	679.0	683.1
17.5°	657.4	660.1	665.5	669.6	675.0
20°	643.9	646.6	653.3	657.4	662.8
22.5°	629.0	630.3	638.5	643.9	650.6
25°	610.1	614.1	622.2	630.3	635.8
27.5°	591.1	595.2	604.6	615.5	623.6
30°	572.2	576.2	585.7	599.2	607.4
32.5°	550.5	556.0	566.8	583.0	592.5
35°	527.5	534.3	547.8	564.1	574.9
37.5°	504.6	511.3	526.2	546.5	557.3
40°	481.6	488.3	504.6	526.2	539.7
42.5°	455.9	464.0	481.6	507.3	523.5
45°	431.5	439.6	459.9	489.7	507.3
47.5°	404.5	413.9	436.9	470.7	491.0
50°	377.4	388.2	413.9	451.8	473.4
52.5°	349.0	361.2	392.3	431.5	454.5
55°	320.6	334.1	370.6	411.2	434.2
57.5°	292.2	307.1	347.6	389.6	412.6
60°	263.8	280.0	324.6	367.9	390.9
62.5°	235.4	253.0	300.3	343.6	367.9
65°	205.6	227.3	275.9	319.2	342.2
67.5°	175.8	201.5	251.6	293.5	315.2
70°	147.4	175.8	225.9	265.1	285.4
72.5°	120.4	150.1	198.8	232.7	240.8
75°	94.7	125.8	170.4	181.3	184.0
77.5°	73.0	101.5	135.3	138.0	144.7
80°	52.8	77.1	92.0	100.1	102.8
82.5°	36.5	52.8	60.9	62.2	63.6
85°	23.0	28.4	31.1	29.8	29.8
87.5°	12.2	10.8	9.5	6.8	5.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)