

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: P260469

Luminaire Tested: **22CZ-LD5-29-RDP-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260469
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-5700K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2190.0 lumens
Efficiency: N/A
Efficacy: 102.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

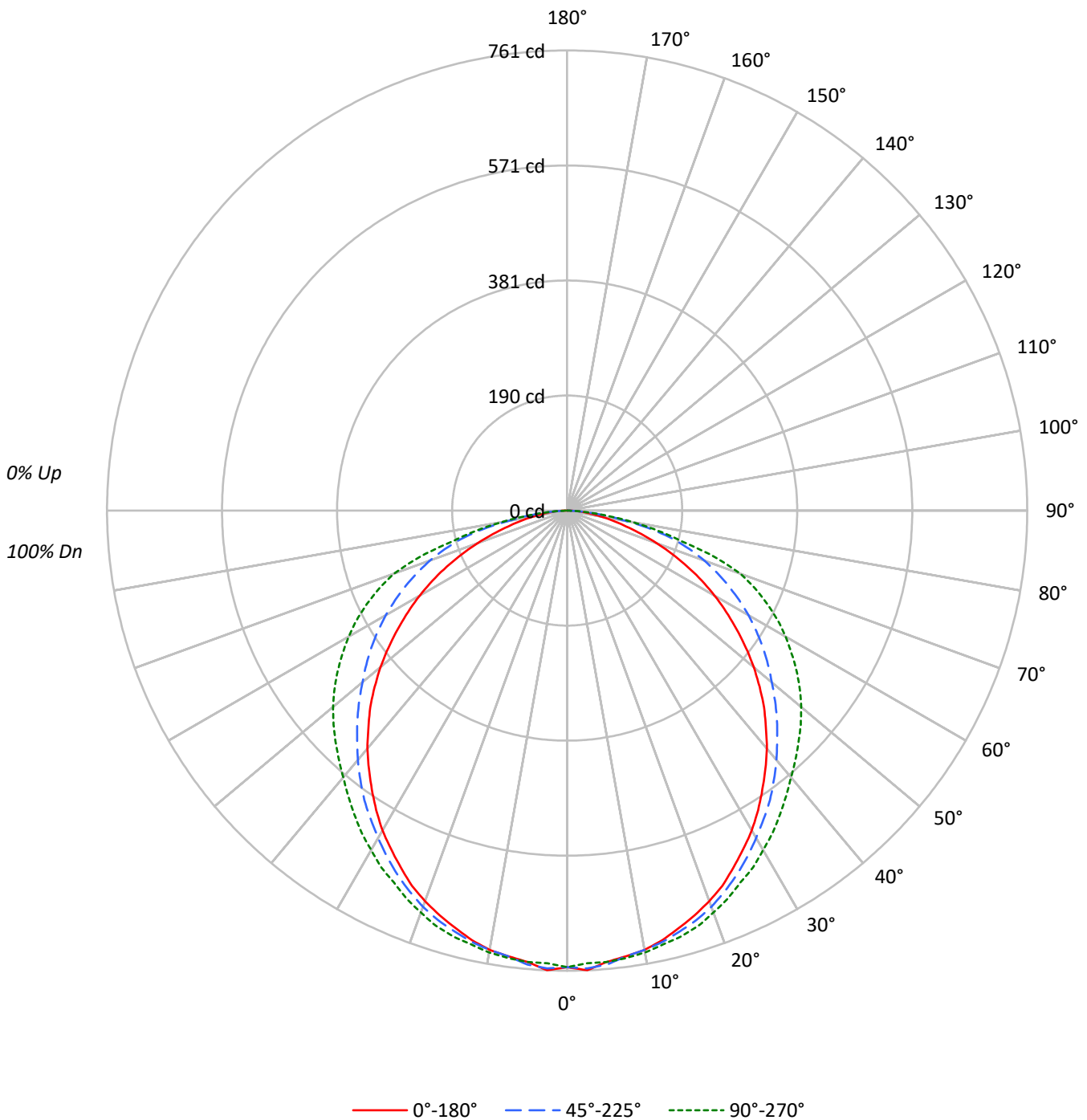
Input Watts (W): 21.39
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2032	2032	2032
5°	2024	2036	2024
10°	2016	2016	2028
15°	1991	2007	2031
20°	1968	1997	2026
25°	1933	1972	2015
30°	1898	1942	2014
35°	1849	1921	2016
40°	1805	1892	2023
45°	1752	1868	2060
50°	1686	1850	2115
55°	1605	1856	2174
60°	1515	1865	2245
65°	1397	1875	2325
70°	1238	1897	2397
75°	1051	1891	2041
80°	872	1522	1700
85°	756	1025	982



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.3	3.3
10°-20°	203.5	9.3
20°-30°	306.1	14.0
30°-40°	366.8	16.8
40°-50°	382.6	17.5
50°-60°	356.2	16.3
60°-70°	289.2	13.2
70°-80°	174.3	8.0
80°-90°	40.0	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°	580.9	26.5
0°-40°	947.8	43.3
0°-60°	1686.6	77.0
0°-90°	2190.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2190.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	755	755	755	755	755	
5°	749	749	754	755	749	71
15°	715	718	720	725	729	202
25°	651	655	664	673	678	300
35°	563	570	585	602	614	352
45°	460	469	491	523	541	355
55°	342	357	396	439	463	306
65°	219	242	294	341	365	217
75°	101	134	182	193	196	109
85°	24	30	33	32	32	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	755.0	755.0	755.0	755.0	755.0
2.5°	760.8	759.4	757.9	753.6	749.3
5°	749.3	749.3	753.6	755.0	749.3
7.5°	743.5	743.5	743.5	749.3	746.4
10°	737.7	737.7	737.7	742.0	742.0
12.5°	727.6	729.0	730.5	731.9	734.8
15°	714.6	717.5	720.4	724.7	729.0
17.5°	701.6	704.5	710.3	714.6	720.4
20°	687.2	690.1	697.3	701.6	707.4
22.5°	671.3	672.7	681.4	687.2	694.4
25°	651.1	655.4	664.1	672.7	678.5
27.5°	630.9	635.2	645.3	656.9	665.5
30°	610.7	615.0	625.1	639.5	648.2
32.5°	587.6	593.3	604.9	622.2	632.3
35°	563.0	570.2	584.7	602.0	613.6
37.5°	538.5	545.7	561.6	583.2	594.8
40°	513.9	521.2	538.5	561.6	576.0
42.5°	486.5	495.2	513.9	541.4	558.7
45°	460.5	469.2	490.8	522.6	541.4
47.5°	431.7	441.8	466.3	502.4	524.0
50°	402.8	414.3	441.8	482.2	505.3
52.5°	372.5	385.5	418.7	460.5	485.1
55°	342.1	356.6	395.6	438.9	463.4
57.5°	311.8	327.7	371.0	415.8	440.3
60°	281.5	298.8	346.5	392.7	417.2
62.5°	251.2	270.0	320.5	366.7	392.7
65°	219.4	242.5	294.5	340.7	365.2
67.5°	187.7	215.1	268.5	313.3	336.4
70°	157.4	187.7	241.1	283.0	304.6
72.5°	128.5	160.2	212.2	248.3	257.0
75°	101.1	134.3	181.9	193.4	196.3
77.5°	78.0	108.3	144.4	147.3	154.5
80°	56.3	82.3	98.2	106.8	109.7
82.5°	39.0	56.3	65.0	66.4	67.9
85°	24.5	30.3	33.2	31.8	31.8
87.5°	13.0	11.5	10.1	7.2	5.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)