

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: P260468

Luminaire Tested: **22CZ-LD5-29-RDP-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260468
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-5500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2184.0 lumens
Efficiency: N/A
Efficacy: 102.1 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

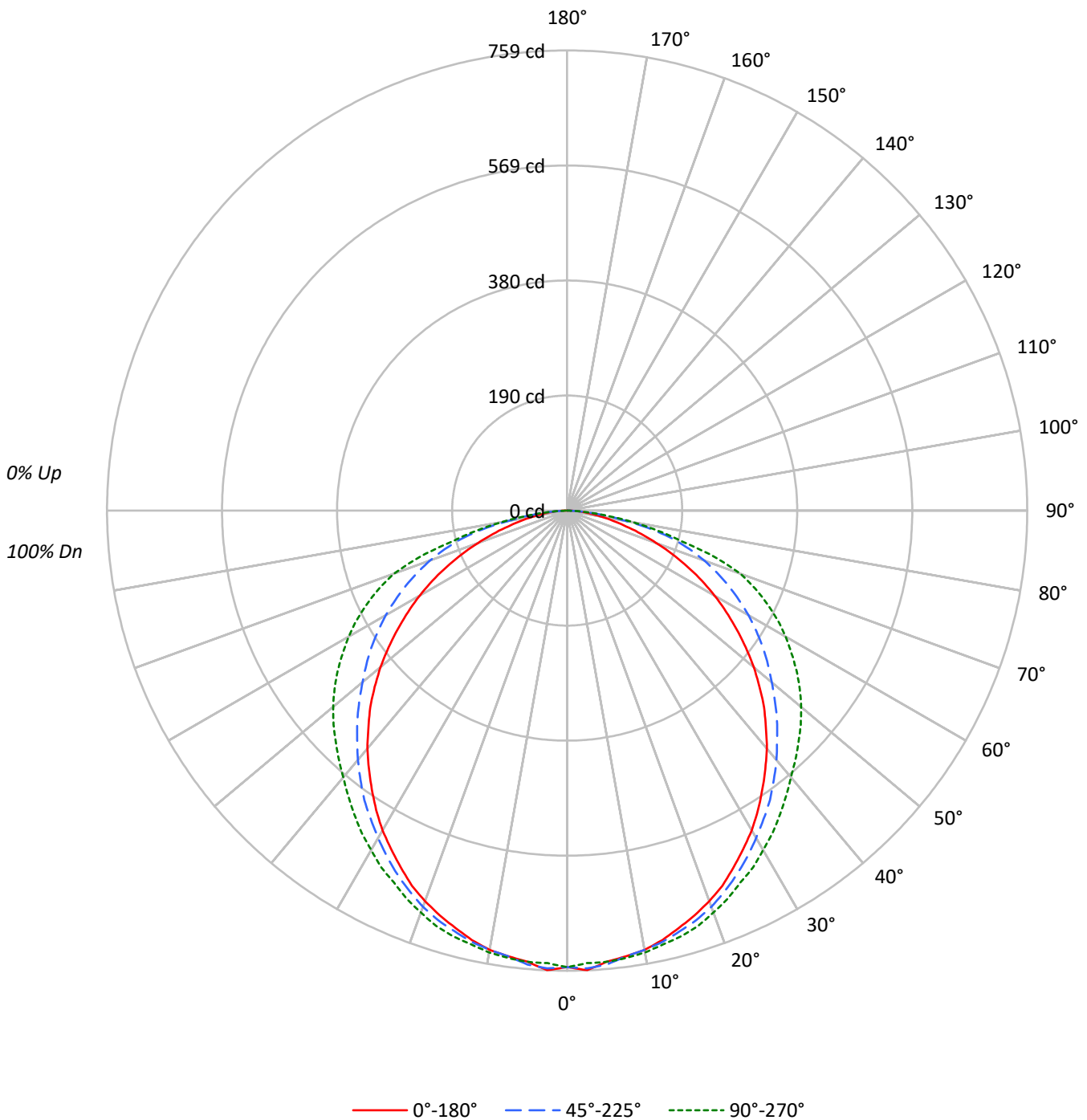
Input Watts (W): 21.39
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2026	2026	2026
5°	2018	2030	2018
10°	2010	2010	2022
15°	1985	2001	2025
20°	1962	1991	2020
25°	1928	1966	2009
30°	1892	1937	2009
35°	1845	1916	2010
40°	1800	1886	2018
45°	1748	1863	2055
50°	1682	1844	2110
55°	1601	1851	2168
60°	1511	1859	2239
65°	1393	1870	2319
70°	1234	1891	2390
75°	1048	1886	2036
80°	869	1517	1695
85°	756	1022	979



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.1	3.3
10°-20°	202.9	9.3
20°-30°	305.3	14.0
30°-40°	365.8	16.8
40°-50°	381.5	17.5
50°-60°	355.2	16.3
60°-70°	288.4	13.2
70°-80°	173.8	8.0
80°-90°	39.9	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°	579.3	26.5
0°-40°	945.2	43.3
0°-60°	1681.9	77.0
0°-90°	2184.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2184.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	753	753	753	753	753	
5°	747	747	752	753	747	71
15°	713	716	718	723	727	201
25°	649	654	662	671	677	299
35°	562	569	583	600	612	351
45°	459	468	490	521	540	354
55°	341	356	394	438	462	305
65°	219	242	294	340	364	216
75°	101	134	181	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°	753.0	753.0	753.0	753.0	753.0
2.5°	758.7	757.3	755.8	751.5	747.2
5°	747.2	747.2	751.5	753.0	747.2
7.5°	741.4	741.4	741.4	747.2	744.3
10°	735.7	735.7	735.7	740.0	740.0
12.5°	725.6	727.0	728.5	729.9	732.8
15°	712.6	715.5	718.4	722.7	727.0
17.5°	699.7	702.6	708.3	712.6	718.4
20°	685.3	688.2	695.4	699.7	705.5
22.5°	669.5	670.9	679.5	685.3	692.5
25°	649.3	653.6	662.3	670.9	676.7
27.5°	629.1	633.5	643.5	655.1	663.7
30°	609.0	613.3	623.4	637.8	646.4
32.5°	586.0	591.7	603.2	620.5	630.6
35°	561.5	568.7	583.1	600.4	611.9
37.5°	537.0	544.2	560.0	581.6	593.2
40°	512.5	519.7	537.0	560.0	574.4
42.5°	485.2	493.8	512.5	539.9	557.2
45°	459.3	467.9	489.5	521.2	539.9
47.5°	430.5	440.5	465.0	501.0	522.6
50°	401.7	413.2	440.5	480.9	503.9
52.5°	371.4	384.4	417.5	459.3	483.7
55°	341.2	355.6	394.5	437.7	462.1
57.5°	311.0	326.8	370.0	414.6	439.1
60°	280.7	298.0	345.5	391.6	416.1
62.5°	250.5	269.2	319.6	365.7	391.6
65°	218.8	241.9	293.7	339.8	364.2
67.5°	187.2	214.5	267.8	312.4	335.4
70°	156.9	187.2	240.4	282.2	303.8
72.5°	128.1	159.8	211.6	247.6	256.3
75°	100.8	133.9	181.4	192.9	195.8
77.5°	77.7	108.0	144.0	146.8	154.0
80°	56.1	82.1	97.9	106.5	109.4
82.5°	38.9	56.1	64.8	66.2	67.7
85°	24.5	30.2	33.1	31.7	31.7
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)