

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: P260438

Luminaire Tested: **22CZ-LD5-39-RDP-UNV-L93050-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260438
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-LD5-39-RDP-UNV-L93050-W2A1-U-5000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2711.0 lumens
Efficiency: N/A
Efficacy: 86.3 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

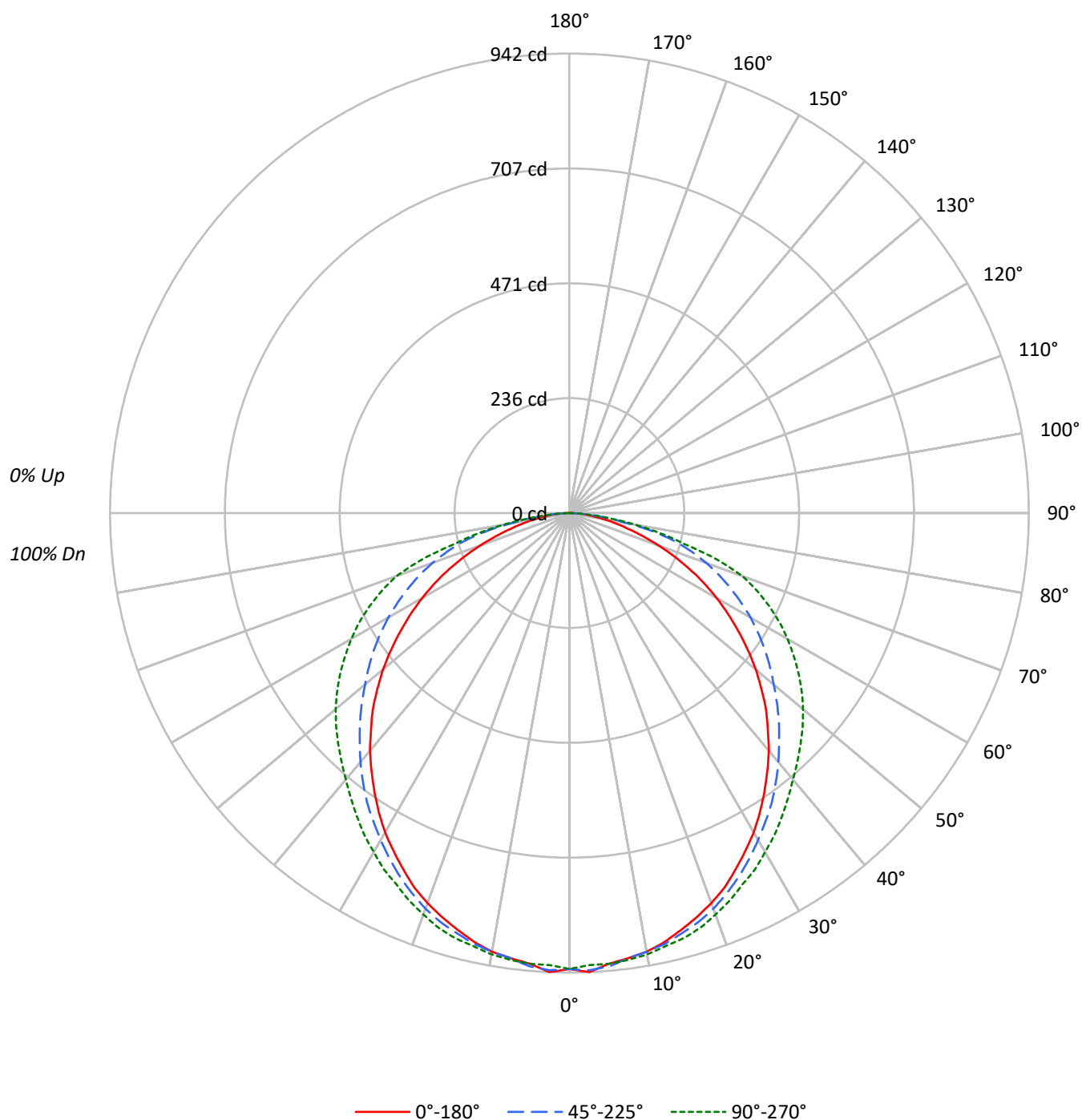
Input Watts (W): 31.397544
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	108	104	99	95	106	101	97	94	97	94	91		93	90	88		89
2	98	90	83	77	96	88	81	76	84	79	74		81	77	73		78
3	89	79	70	64	87	77	69	63	74	67	62		71	66	61		69
4	82	69	60	54	79	68	60	53	66	58	52		63	57	52		61
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		55
6	69	56	47	40	67	55	46	40	53	45	40		51	44	39		50
7	64	50	42	35	62	50	41	35	48	40	35		47	40	35		45
8	60	46	37	31	58	45	37	31	44	37	31		43	36	31		42
9	56	42	34	28	54	42	34	28	40	33	28		39	33	28		38
10	52	39	31	26	51	38	31	26	37	30	25		36	30	25		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2515	2515	2515
5°	2505	2520	2505
10°	2495	2495	2510
15°	2464	2484	2514
20°	2436	2472	2508
25°	2393	2441	2494
30°	2349	2404	2493
35°	2290	2378	2495
40°	2235	2342	2505
45°	2170	2312	2551
50°	2087	2290	2619
55°	1987	2297	2692
60°	1876	2308	2780
65°	1729	2322	2879
70°	1533	2348	2967
75°	1301	2341	2527
80°	1080	1883	2104
85°	939	1269	1213



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.3	3.3
10°-20°	251.9	9.3
20°-30°	379.0	14.0
30°-40°	454.1	16.8
40°-50°	473.6	17.5
50°-60°	440.9	16.3
60°-70°	358.0	13.2
70°-80°	215.7	8.0
80°-90°	49.5	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°	719.1	26.5
0°-40°	1173.3	43.3
0°-60°	2087.8	77.0
0°-90°	2711.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2711.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	935	935	935	935	935	
5°	928	928	933	935	928	88
15°	885	888	892	897	902	250
25°	806	811	822	833	840	371
35°	697	706	724	745	760	436
45°	570	581	608	647	670	439
55°	424	441	490	543	574	379
65°	272	300	365	422	452	269
75°	125	166	225	240	243	135
85°	30	38	41	39	39	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	934.7	934.7	934.7	934.7	934.7
2.5°	941.8	940.0	938.2	932.9	927.5
5°	927.5	927.5	932.9	934.7	927.5
7.5°	920.4	920.4	920.4	927.5	923.9
10°	913.2	913.2	913.2	918.6	918.6
12.5°	900.7	902.5	904.3	906.1	909.6
15°	884.6	888.2	891.8	897.1	902.5
17.5°	868.5	872.1	879.3	884.6	891.8
20°	850.7	854.2	863.2	868.5	875.7
22.5°	831.0	832.8	843.5	850.7	859.6
25°	806.0	811.3	822.1	832.8	839.9
27.5°	781.0	786.3	798.8	813.1	823.9
30°	755.9	761.3	773.8	791.7	802.4
32.5°	727.3	734.5	748.8	770.2	782.7
35°	697.0	705.9	723.8	745.2	759.5
37.5°	666.6	675.5	695.2	722.0	736.3
40°	636.2	645.1	666.6	695.2	713.1
42.5°	602.3	613.0	636.2	670.2	691.6
45°	570.1	580.8	607.6	646.9	670.2
47.5°	534.3	546.9	577.2	621.9	648.7
50°	498.6	512.9	546.9	596.9	625.5
52.5°	461.1	477.2	518.3	570.1	600.5
55°	423.5	441.4	489.7	543.3	573.7
57.5°	386.0	405.7	459.3	514.7	545.1
60°	348.5	369.9	428.9	486.1	516.5
62.5°	311.0	334.2	396.7	453.9	486.1
65°	271.6	300.2	364.6	421.8	452.1
67.5°	232.3	266.3	332.4	387.8	416.4
70°	194.8	232.3	298.4	350.3	377.1
72.5°	159.1	198.4	262.7	307.4	318.1
75°	125.1	166.2	225.2	239.5	243.0
77.5°	96.5	134.0	178.7	182.3	191.2
80°	69.7	101.9	121.5	132.2	135.8
82.5°	48.3	69.7	80.4	82.2	84.0
85°	30.4	37.5	41.1	39.3	39.3
87.5°	16.1	14.3	12.5	8.9	7.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)