

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: P259249

Luminaire Tested: **22CZ-LD5-29-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259249
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-LD5-29-UNV-L93050-W2A1-U-3500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2423.0 lumens
Efficiency: N/A
Efficacy: 114.1 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

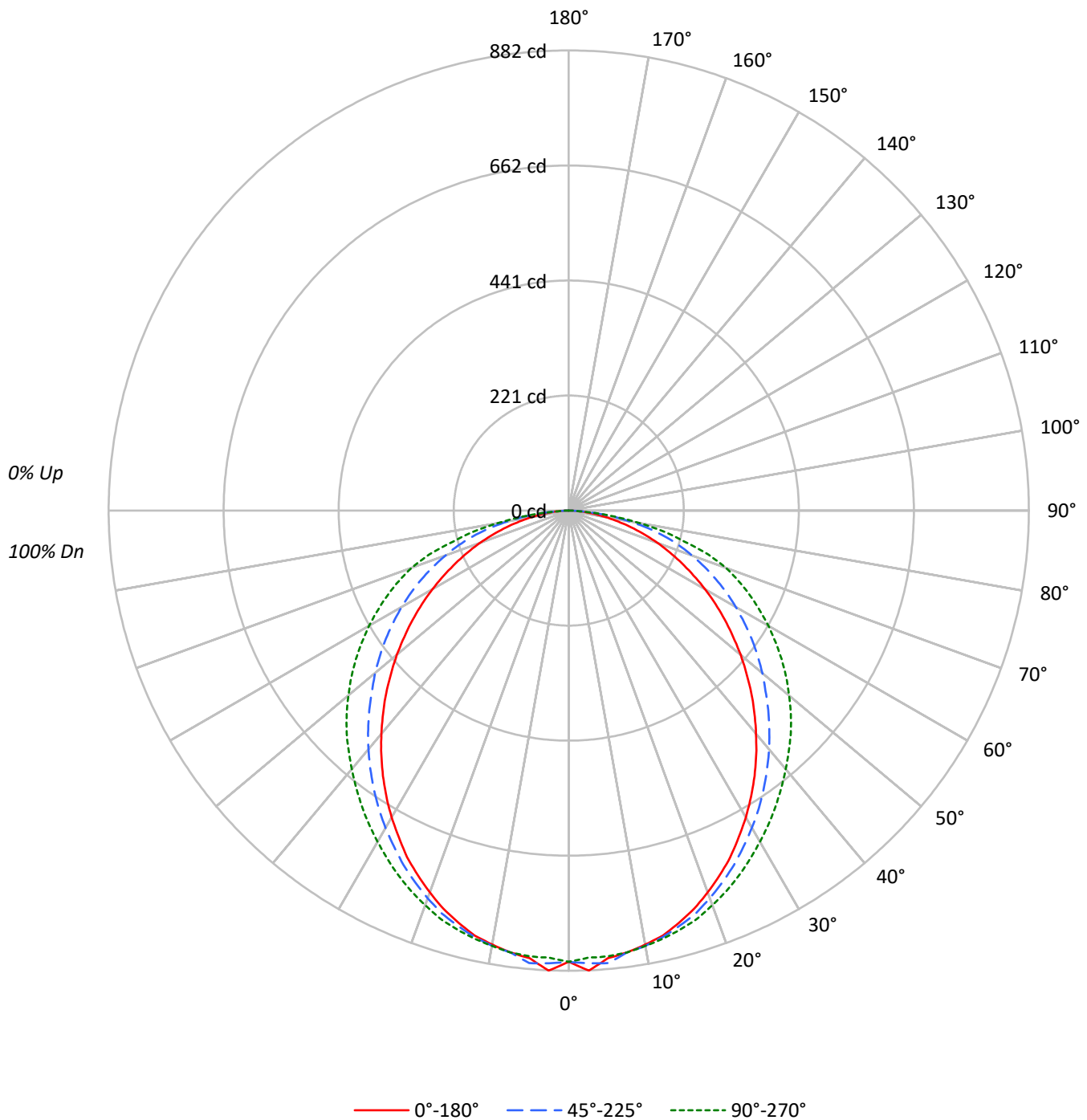
Input Watts (W): 21.227808
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				0
RW	70	50	30	10	70	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		100
1	108	104	99	95	106	101	97	94	97	94	91		93	90	88		83
2	98	90	83	77	96	88	82	76	84	79	74		81	77	73		69
3	90	79	70	64	87	77	69	63	74	68	62		71	66	61		58
4	82	70	61	54	80	68	60	54	66	59	53		64	57	52		49
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		43
6	70	56	47	41	68	55	47	40	53	46	40		52	45	40		37
7	65	51	42	36	63	50	42	36	48	41	35		47	40	35		33
8	60	46	38	32	58	46	38	32	44	37	32		43	36	31		29
9	56	43	34	29	55	42	34	29	41	34	29		40	33	28		26
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2327	2327	2327
5°	2327	2352	2317
10°	2308	2315	2315
15°	2278	2294	2314
20°	2230	2264	2305
25°	2176	2225	2292
30°	2109	2182	2277
35°	2040	2141	2272
40°	1962	2099	2272
45°	1883	2058	2291
50°	1801	2027	2308
55°	1714	2007	2338
60°	1623	1991	2378
65°	1523	1981	2438
70°	1419	1975	2522
75°	1286	1972	2389
80°	1114	1826	2118
85°	945	1383	1346



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.0	3.4
10°-20°	232.3	9.6
20°-30°	345.6	14.3
30°-40°	408.8	16.9
40°-50°	420.2	17.3
50°-60°	383.9	15.8
60°-70°	307.1	12.7
70°-80°	192.8	8.0
80°-90°	50.2	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°	660.0	27.2
0°-40°	1068.8	44.1
0°-60°	1872.9	77.3
0°-90°	2423.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2423.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	865	865	865	865	865	
5°	861	861	871	865	858	82
15°	818	819	824	828	831	230
25°	733	738	749	762	772	337
35°	621	629	652	676	692	388
45°	495	508	541	581	602	382
55°	365	383	428	475	498	327
65°	239	260	311	358	383	237
75°	124	147	190	218	230	131
85°	31	39	45	44	44	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	864.9	864.9	864.9	864.9	864.9
2.5°	882.5	879.0	868.4	861.3	857.8
5°	861.3	861.3	870.7	864.9	857.8
7.5°	854.2	854.2	854.2	871.9	854.2
10°	844.8	846.0	847.2	854.2	847.2
12.5°	834.2	834.2	836.6	838.9	840.1
15°	817.7	818.9	823.6	828.3	830.7
17.5°	800.0	803.6	809.5	815.4	820.1
20°	778.8	783.5	790.6	800.0	804.8
22.5°	756.4	761.2	770.6	781.2	789.4
25°	732.9	737.6	749.4	762.3	771.8
27.5°	705.8	711.7	725.8	743.5	752.9
30°	678.7	685.8	702.2	722.3	732.9
32.5°	650.4	658.7	677.5	699.9	712.9
35°	620.9	629.2	651.6	676.3	691.6
37.5°	590.3	599.7	624.5	652.8	669.3
40°	558.5	569.1	597.4	628.0	646.9
42.5°	526.7	538.5	569.1	605.6	624.5
45°	494.9	507.8	540.8	580.9	602.1
47.5°	461.9	477.2	511.4	556.1	577.4
50°	430.1	445.4	484.3	530.2	551.4
52.5°	397.1	414.8	456.0	503.1	525.5
55°	365.3	382.9	427.7	474.8	498.4
57.5°	333.5	351.1	398.3	446.6	470.1
60°	301.6	320.5	370.0	417.1	441.9
62.5°	269.8	289.9	340.5	388.8	412.4
65°	239.2	260.4	311.1	358.2	382.9
67.5°	209.7	232.1	281.6	327.6	352.3
70°	180.3	202.7	251.0	295.7	320.5
72.5°	152.0	174.4	221.5	261.6	280.4
75°	123.7	147.3	189.7	218.0	229.8
77.5°	96.6	120.2	156.7	175.6	188.5
80°	71.9	91.9	117.8	132.0	136.7
82.5°	49.5	66.0	82.5	86.0	88.4
85°	30.6	38.9	44.8	43.6	43.6
87.5°	14.1	15.3	13.0	9.4	5.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)