

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: P259243

Luminaire Tested: **22CZ-LD5-24-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259243
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-LD5-24-UNV-L93050-W2A1-U-3000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1896.0 lumens
Efficiency: N/A
Efficacy: 105.4 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

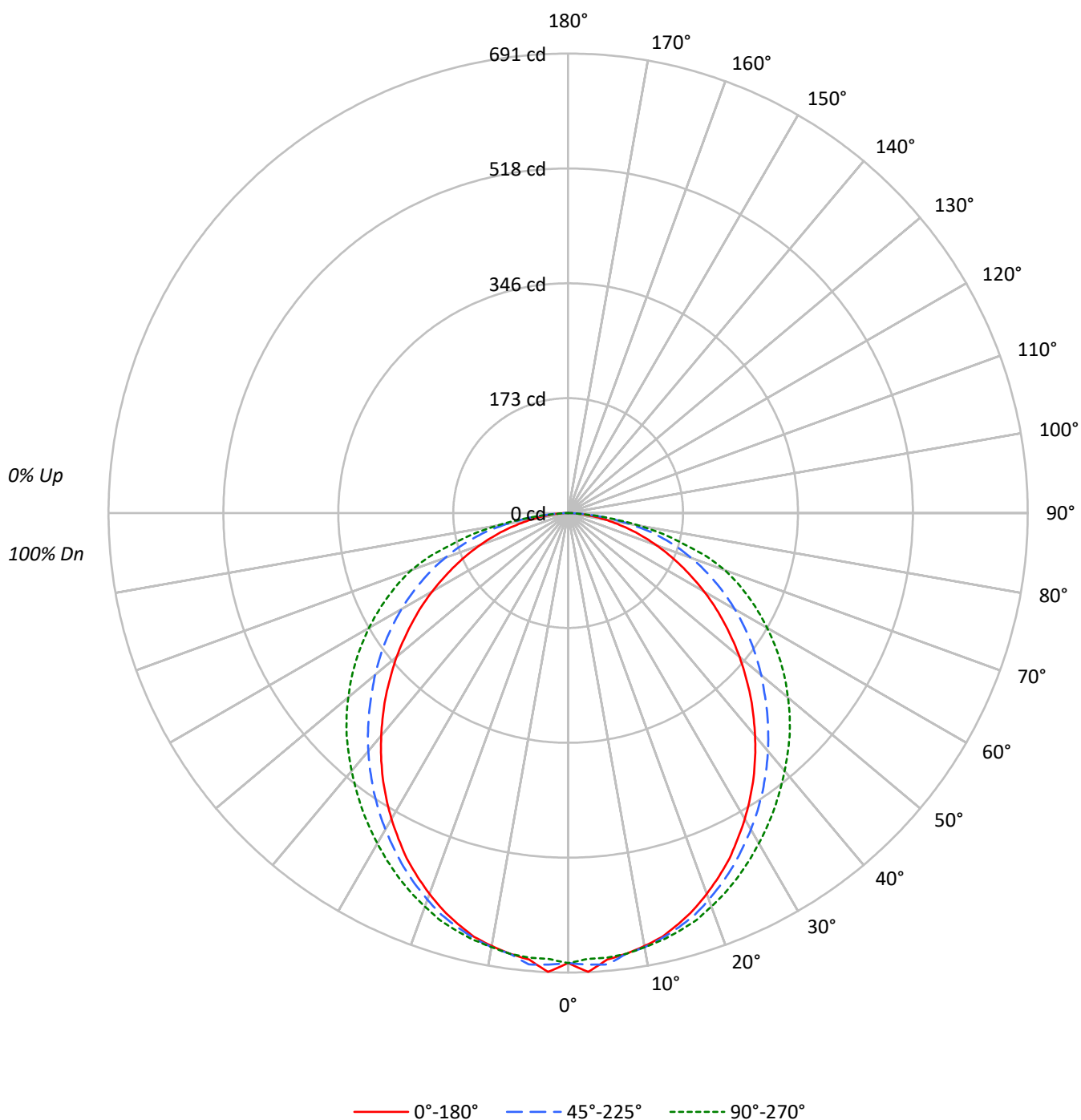
Input Watts (W): 17.981271
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P259243

CATALOG NUMBER: 22CZ-LD5-24-UNV-L93050-W2A1-U-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P259243

CATALOG NUMBER: 22CZ-LD5-24-UNV-L93050-W2A1-U-3000K

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°	1821	1821	1821
5°	1821	1841	1813
10°	1806	1811	1811
15°	1783	1796	1811
20°	1745	1772	1803
25°	1703	1741	1793
30°	1650	1707	1782
35°	1596	1675	1778
40°	1535	1642	1778
45°	1474	1611	1793
50°	1409	1586	1806
55°	1341	1570	1830
60°	1270	1558	1861
65°	1192	1550	1908
70°	1110	1545	1973
75°	1006	1543	1869
80°	871	1429	1658
85°	741	1081	1053



TEST NUMBER: P259243

CATALOG NUMBER: 22CZ-LD5-24-UNV-L93050-W2A1-U-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.2	3.4
10°-20°	181.8	9.6
20°-30°	270.5	14.3
30°-40°	319.9	16.9
40°-50°	328.8	17.3
50°-60°	300.4	15.8
60°-70°	240.3	12.7
70°-80°	150.8	8.0
80°-90°	39.3	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°	516.5	27.2
0°-40°	836.3	44.1
0°-60°	1465.5	77.3
0°-90°	1896.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1896.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	677	677	677	677	677	
5°	674	674	681	677	671	64
15°	640	641	644	648	650	180
25°	574	577	586	596	604	264
35°	486	492	510	529	541	304
45°	387	397	423	454	471	299
55°	286	300	335	372	390	256
65°	187	204	243	280	300	186
75°	97	115	148	171	180	103
85°	24	30	35	34	34	28
90°	0	0	0	0	0	



TEST NUMBER: P259243

CATALOG NUMBER: 22CZ-LD5-24-UNV-L93050-W2A1-U-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	676.7	676.7	676.7	676.7	676.7
2.5°	690.6	687.8	679.5	674.0	671.2
5°	674.0	674.0	681.4	676.7	671.2
7.5°	668.4	668.4	668.4	682.3	668.4
10°	661.1	662.0	662.9	668.4	662.9
12.5°	652.8	652.8	654.6	656.5	657.4
15°	639.9	640.8	644.5	648.2	650.0
17.5°	626.0	628.8	633.4	638.0	641.7
20°	609.4	613.1	618.7	626.0	629.7
22.5°	591.9	595.6	603.0	611.3	617.7
25°	573.5	577.2	586.4	596.5	603.9
27.5°	552.3	556.9	568.0	581.8	589.2
30°	531.1	536.6	549.5	565.2	573.5
32.5°	508.9	515.4	530.1	547.7	557.8
35°	485.9	492.3	509.9	529.2	541.2
37.5°	461.9	469.3	488.7	510.8	523.7
40°	437.0	445.3	467.5	491.4	506.2
42.5°	412.1	421.4	445.3	473.9	488.7
45°	387.2	397.4	423.2	454.5	471.1
47.5°	361.4	373.4	400.1	435.2	451.8
50°	336.5	348.5	378.9	414.9	431.5
52.5°	310.7	324.5	356.8	393.7	411.2
55°	285.8	299.6	334.7	371.6	390.0
57.5°	260.9	274.8	311.6	349.4	367.9
60°	236.0	250.8	289.5	326.4	345.7
62.5°	211.1	226.8	266.5	304.3	322.7
65°	187.2	203.8	243.4	280.3	299.6
67.5°	164.1	181.6	220.4	256.3	275.7
70°	141.1	158.6	196.4	231.4	250.8
72.5°	118.9	136.5	173.3	204.7	219.4
75°	96.8	115.2	148.4	170.6	179.8
77.5°	75.6	94.0	122.6	137.4	147.5
80°	56.2	71.9	92.2	103.3	107.0
82.5°	38.7	51.6	64.5	67.3	69.1
85°	24.0	30.4	35.0	34.1	34.1
87.5°	11.1	12.0	10.1	7.4	4.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)