

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: P259244

Luminaire Tested: **22CZ-LD5-24-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259244
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-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: 2071.0 lumens
Efficiency: N/A
Efficacy: 115.6 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

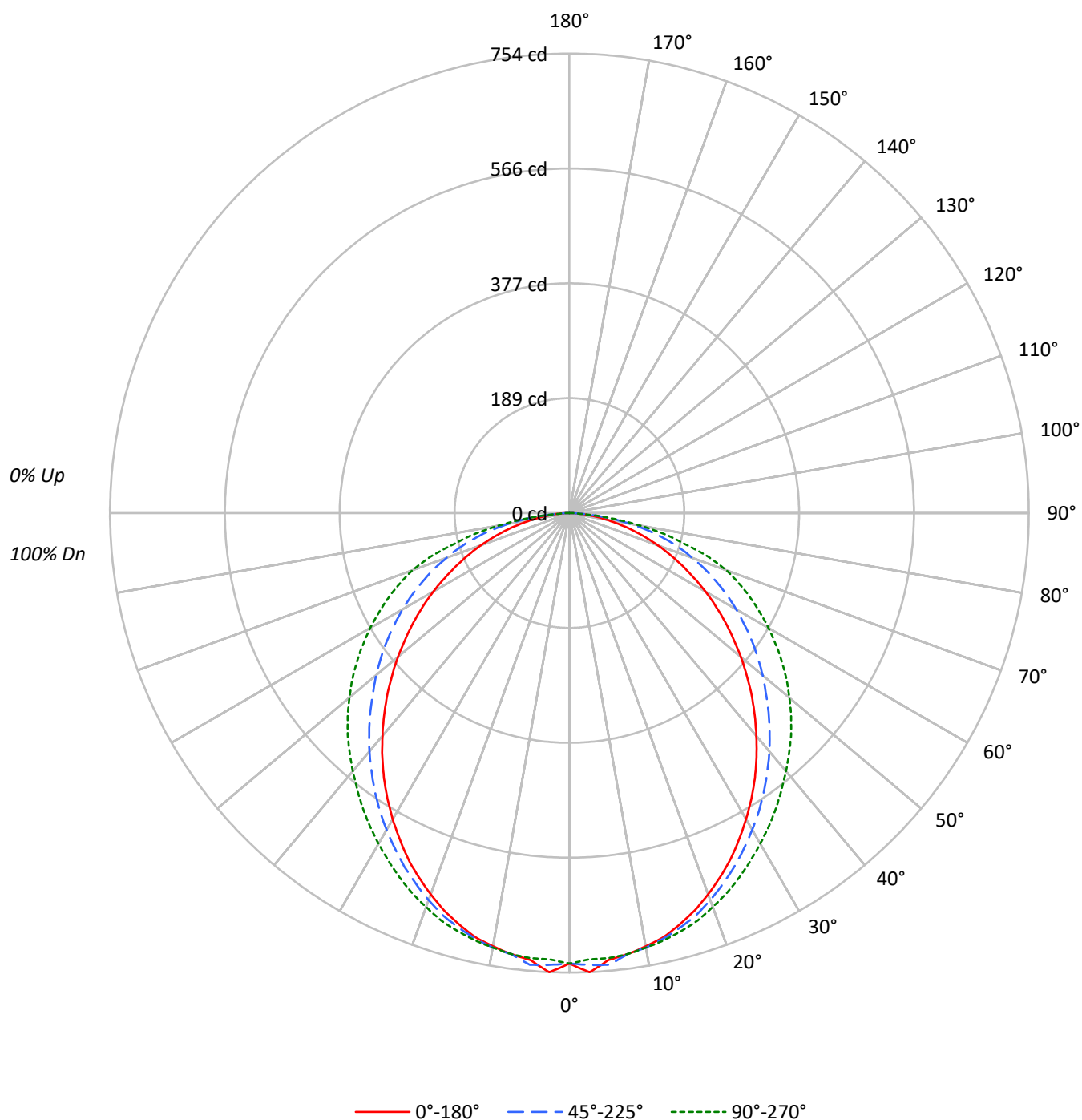
Input Watts (W): 17.910963
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P259244

CATALOG NUMBER: 22CZ-LD5-24-UNV-L93050-W2A1-U-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P259244

CATALOG NUMBER: 22CZ-LD5-24-UNV-L93050-W2A1-U-3500K

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	82	76	84	79	74		81	77	73		78
3	90	79	70	64	87	77	69	63	74	68	62		71	66	61		69
4	82	70	61	54	80	68	60	54	66	59	53		64	57	52		61
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		55
6	70	56	47	41	68	55	47	40	53	46	40		52	45	40		50
7	65	51	42	36	63	50	42	36	48	41	35		47	40	35		46
8	60	46	38	32	58	46	38	32	44	37	32		43	36	31		42
9	56	43	34	29	55	42	34	29	41	34	29		40	33	28		39
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1989	1989	1989
5°	1989	2010	1981
10°	1973	1979	1979
15°	1947	1961	1978
20°	1906	1935	1970
25°	1860	1902	1958
30°	1803	1865	1946
35°	1743	1829	1942
40°	1677	1794	1942
45°	1610	1759	1958
50°	1539	1733	1973
55°	1465	1715	1999
60°	1387	1702	2033
65°	1301	1693	2084
70°	1212	1688	2155
75°	1099	1685	2042
80°	951	1561	1810
85°	809	1183	1152



TEST NUMBER: P259244

CATALOG NUMBER: 22CZ-LD5-24-UNV-L93050-W2A1-U-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.1	3.4
10°-20°	198.6	9.6
20°-30°	295.4	14.3
30°-40°	349.4	16.9
40°-50°	359.1	17.3
50°-60°	328.2	15.8
60°-70°	262.5	12.7
70°-80°	164.7	8.0
80°-90°	42.9	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°	564.1	27.2
0°-40°	913.5	44.1
0°-60°	1600.8	77.3
0°-90°	2071.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2071.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	739	739	739	739	739	
5°	736	736	744	739	733	70
15°	699	700	704	708	710	197
25°	626	630	640	652	660	288
35°	531	538	557	578	591	332
45°	423	434	462	496	515	326
55°	312	327	366	406	426	279
65°	204	223	266	306	327	203
75°	106	126	162	186	196	112
85°	26	33	38	37	37	30
90°	0	0	0	0	0	



TEST NUMBER: P259244

CATALOG NUMBER: 22CZ-LD5-24-UNV-L93050-W2A1-U-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	739.2	739.2	739.2	739.2	739.2
2.5°	754.3	751.3	742.2	736.2	733.2
5°	736.2	736.2	744.2	739.2	733.2
7.5°	730.1	730.1	730.1	745.3	730.1
10°	722.1	723.1	724.1	730.1	724.1
12.5°	713.0	713.0	715.0	717.1	718.1
15°	698.9	699.9	704.0	708.0	710.0
17.5°	683.8	686.8	691.9	696.9	700.9
20°	665.7	669.7	675.8	683.8	687.8
22.5°	646.6	650.6	658.6	667.7	674.8
25°	626.4	630.4	640.5	651.6	659.6
27.5°	603.3	608.3	620.4	635.5	643.5
30°	580.1	586.1	600.2	617.4	626.4
32.5°	555.9	563.0	579.1	598.2	609.3
35°	530.7	537.8	556.9	578.1	591.2
37.5°	504.6	512.6	533.8	557.9	572.0
40°	477.4	486.4	510.6	536.8	552.9
42.5°	450.2	460.2	486.4	517.6	533.8
45°	423.0	434.1	462.3	496.5	514.6
47.5°	394.8	407.9	437.1	475.4	493.5
50°	367.6	380.7	413.9	453.2	471.3
52.5°	339.4	354.5	389.7	430.0	449.2
55°	312.2	327.3	365.6	405.9	426.0
57.5°	285.0	300.1	340.4	381.7	401.8
60°	257.8	273.9	316.2	356.5	377.7
62.5°	230.6	247.7	291.1	332.3	352.5
65°	204.4	222.6	265.9	306.2	327.3
67.5°	179.3	198.4	240.7	280.0	301.1
70°	154.1	173.2	214.5	252.8	273.9
72.5°	129.9	149.1	189.3	223.6	239.7
75°	105.7	125.9	162.1	186.3	196.4
77.5°	82.6	102.7	133.9	150.1	161.1
80°	61.4	78.6	100.7	112.8	116.8
82.5°	42.3	56.4	70.5	73.5	75.5
85°	26.2	33.2	38.3	37.3	37.3
87.5°	12.1	13.1	11.1	8.1	5.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)