

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: P#

Luminaire Tested: **22CZ-LD5-24-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
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-L840-CD1-U
Description: CRUZE 2x2 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

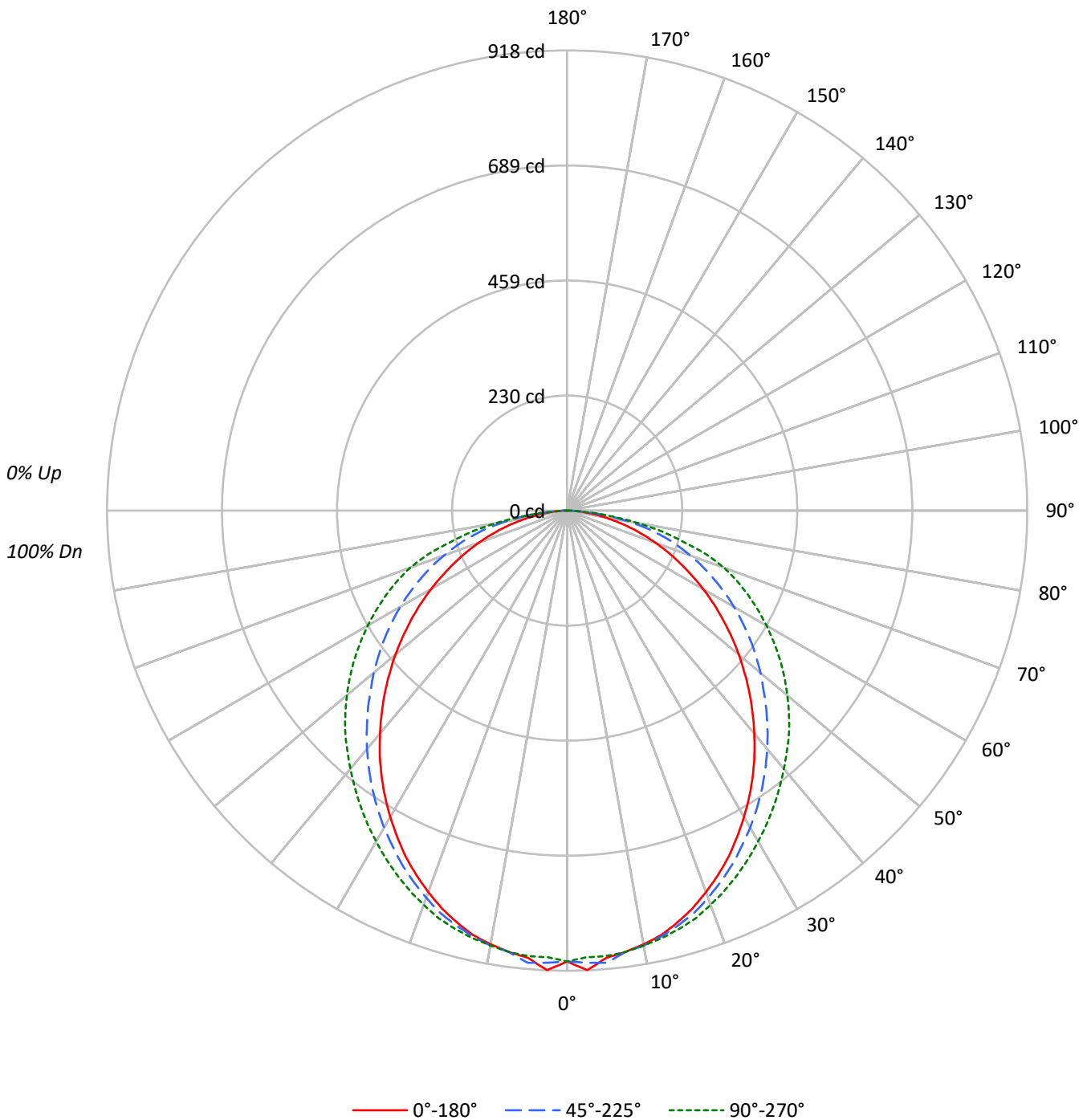
Lumens per Lamp: N/A
Luminaire Lumens: 2519.4 lumens
Efficiency: N/A
Efficacy: 128.4 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.26 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.1')
CIE Type: Direct

Input Watts (W): 19.62
Input Voltage (V): NR
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: P#
CATALOG NUMBER: 22CZ-LD5-24-UNV-L840-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 22CZ-LD5-24-UNV-L840-CD1-U

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	82	76	84	79	74	81	77	73	78	74	71	69
3	90	79	70	64	87	77	69	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2420	2420	2420
5°	2409	2431	2399
10°	2379	2377	2386
15°	2338	2341	2374
20°	2278	2295	2353
25°	2211	2240	2328
30°	2131	2180	2301
35°	2049	2121	2283
40°	1958	2060	2268
45°	1865	1999	2269
50°	1767	1944	2265
55°	1663	1895	2269
60°	1553	1845	2275
65°	1430	1788	2290
70°	1296	1719	2305
75°	1127	1622	2093
80°	902	1355	1716
85°	627	796	890



TEST NUMBER: P#

CATALOG NUMBER: 22CZ-LD5-24-UNV-L840-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.3	3.4
10°-20°	241.6	9.6
20°-30°	359.4	14.3
30°-40°	425.1	16.9
40°-50°	436.9	17.3
50°-60°	399.2	15.8
60°-70°	319.4	12.7
70°-80°	200.4	8.0
80°-90°	52.2	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°	686.3	27.2
0°-40°	1111.3	44.1
0°-60°	1947.4	77.3
0°-90°	2519.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2519.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	899	899	899	899	899	
5°	896	896	905	899	892	85
15°	850	852	856	861	864	239
25°	762	767	779	793	802	350
35°	646	654	678	703	719	404
45°	515	528	562	604	626	397
55°	380	398	445	494	518	340
65°	249	271	323	372	398	247
75°	129	153	197	227	239	137
85°	32	40	47	45	45	37
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 22CZ-LD5-24-UNV-L840-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	899.3	899.3	899.3	899.3	899.3
2.5°	917.6	914.0	902.9	895.6	891.9
5°	895.6	895.6	905.4	899.3	891.9
7.5°	888.2	888.2	888.2	906.6	888.2
10°	878.4	879.7	880.9	888.2	880.9
12.5°	867.4	867.4	869.9	872.3	873.5
15°	850.3	851.5	856.4	861.3	863.7
17.5°	831.9	835.6	841.7	847.8	852.7
20°	809.8	814.7	822.1	831.9	836.8
22.5°	786.5	791.4	801.2	812.3	820.8
25°	762.0	766.9	779.2	792.7	802.5
27.5°	733.9	740.0	754.7	773.1	782.9
30°	705.7	713.0	730.2	751.0	762.0
32.5°	676.3	684.9	704.5	727.7	741.2
35°	645.7	654.2	677.5	703.2	719.2
37.5°	613.8	623.6	649.3	678.7	695.9
40°	580.7	591.7	621.2	653.0	672.6
42.5°	547.6	559.9	591.7	629.7	649.3
45°	514.6	528.0	562.3	604.0	626.1
47.5°	480.3	496.2	531.7	578.3	600.3
50°	447.2	463.1	503.5	551.3	573.4
52.5°	412.9	431.3	474.1	523.1	546.4
55°	379.8	398.2	444.7	493.7	518.2
57.5°	346.7	365.1	414.1	464.3	488.8
60°	313.6	333.2	384.7	433.7	459.4
62.5°	280.6	301.4	354.1	404.3	428.8
65°	248.7	270.8	323.4	372.4	398.2
67.5°	218.1	241.4	292.8	340.6	366.3
70°	187.4	210.7	261.0	307.5	333.2
72.5°	158.0	181.3	230.3	272.0	291.6
75°	128.6	153.1	197.2	226.7	238.9
77.5°	100.5	125.0	162.9	182.5	196.0
80°	74.7	95.6	122.5	137.2	142.1
82.5°	51.5	68.6	85.8	89.4	91.9
85°	31.9	40.4	46.6	45.3	45.3
87.5°	14.7	15.9	13.5	9.8	6.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)