

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-LD5-24SE-UNV-L850-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-LD5-24SE-UNV-L850-CD1-U
Description: CRUZE 2x2 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2721.9 lumens
Efficiency: N/A
Efficacy: 129.0 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

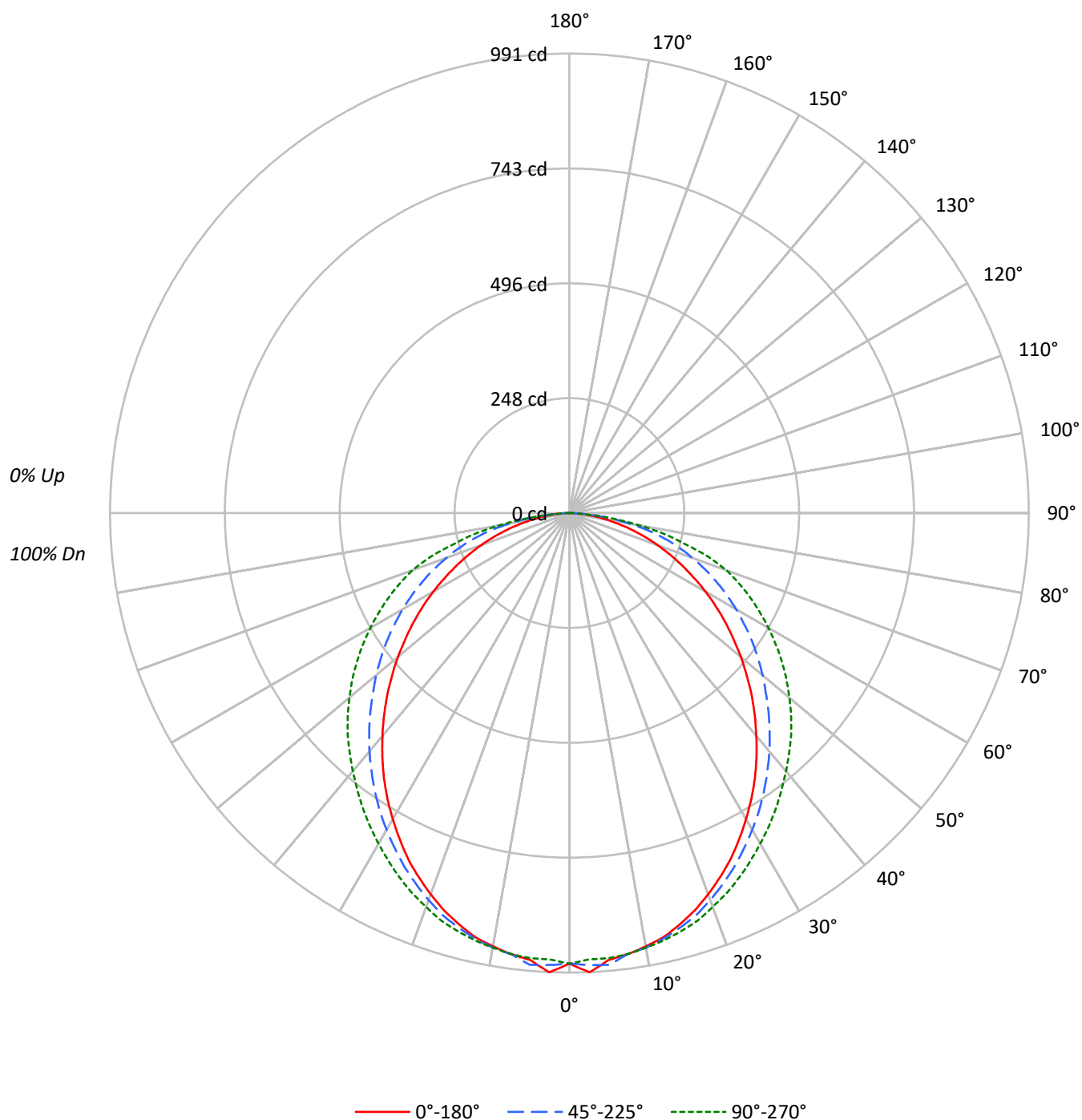
Input Watts (W): 21.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P#

CATALOG NUMBER: 22CZ-LD5-24SE-UNV-L850-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 22CZ-LD5-24SE-UNV-L850-CD1-U

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	50	30	10	50	30	10
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°	2615	2615	2615
5°	2602	2626	2592
10°	2571	2568	2578
15°	2525	2530	2565
20°	2461	2480	2542
25°	2389	2420	2516
30°	2303	2355	2486
35°	2214	2291	2466
40°	2115	2225	2450
45°	2015	2160	2452
50°	1909	2100	2448
55°	1797	2048	2452
60°	1679	1993	2459
65°	1545	1932	2474
70°	1401	1857	2490
75°	1218	1753	2262
80°	974	1464	1853
85°	676	859	963



TEST NUMBER: P#

CATALOG NUMBER: 22CZ-LD5-24SE-UNV-L850-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.2	3.4
10°-20°	261.0	9.6
20°-30°	388.3	14.3
30°-40°	459.2	16.9
40°-50°	472.0	17.3
50°-60°	431.3	15.8
60°-70°	345.0	12.7
70°-80°	216.5	8.0
80°-90°	56.4	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°	741.5	27.2
0°-40°	1200.7	44.1
0°-60°	2104.0	77.3
0°-90°	2721.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2721.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	972	972	972	972	972	
5°	968	968	978	972	964	92
15°	919	920	925	930	933	259
25°	823	829	842	856	867	379
35°	698	707	732	760	777	436
45°	556	570	608	653	676	429
55°	410	430	480	533	560	367
65°	269	292	349	402	430	267
75°	139	166	213	245	258	148
85°	34	44	50	49	49	40
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 22CZ-LD5-24SE-UNV-L850-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	971.6	971.6	971.6	971.6	971.6
2.5°	991.4	987.4	975.5	967.6	963.6
5°	967.6	967.6	978.2	971.6	963.6
7.5°	959.6	959.6	959.6	979.5	959.6
10°	949.1	950.4	951.7	959.6	951.7
12.5°	937.1	937.1	939.8	942.4	943.8
15°	918.6	919.9	925.2	930.5	933.2
17.5°	898.8	902.7	909.3	916.0	921.3
20°	874.9	880.2	888.2	898.8	904.0
22.5°	849.8	855.1	865.7	877.6	886.8
25°	823.3	828.6	841.8	856.4	867.0
27.5°	792.9	799.5	815.4	835.2	845.8
30°	762.4	770.4	788.9	811.4	823.3
32.5°	730.7	739.9	761.1	786.2	800.8
35°	697.6	706.8	732.0	759.8	777.0
37.5°	663.1	673.7	701.5	733.3	751.8
40°	627.4	639.3	671.1	705.5	726.7
42.5°	591.7	604.9	639.3	680.4	701.5
45°	555.9	570.5	607.6	652.6	676.4
47.5°	518.9	536.1	574.5	624.8	648.6
50°	483.1	500.3	544.0	595.6	619.5
52.5°	446.1	465.9	512.3	565.2	590.3
55°	410.3	430.2	480.5	533.4	559.9
57.5°	374.6	394.4	447.4	501.7	528.1
60°	338.9	360.0	415.6	468.6	496.4
62.5°	303.1	325.6	382.5	436.8	463.3
65°	268.7	292.5	349.4	402.4	430.2
67.5°	235.6	260.8	316.4	368.0	395.8
70°	202.5	227.7	281.9	332.2	360.0
72.5°	170.8	195.9	248.8	293.8	315.0
75°	139.0	165.5	213.1	244.9	258.1
77.5°	108.5	135.0	176.0	197.2	211.8
80°	80.7	103.2	132.4	148.2	153.5
82.5°	55.6	74.1	92.7	96.6	99.3
85°	34.4	43.7	50.3	49.0	49.0
87.5°	15.9	17.2	14.6	10.6	6.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)