

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

Light Source: -
Ballast/Driver: -

Summary

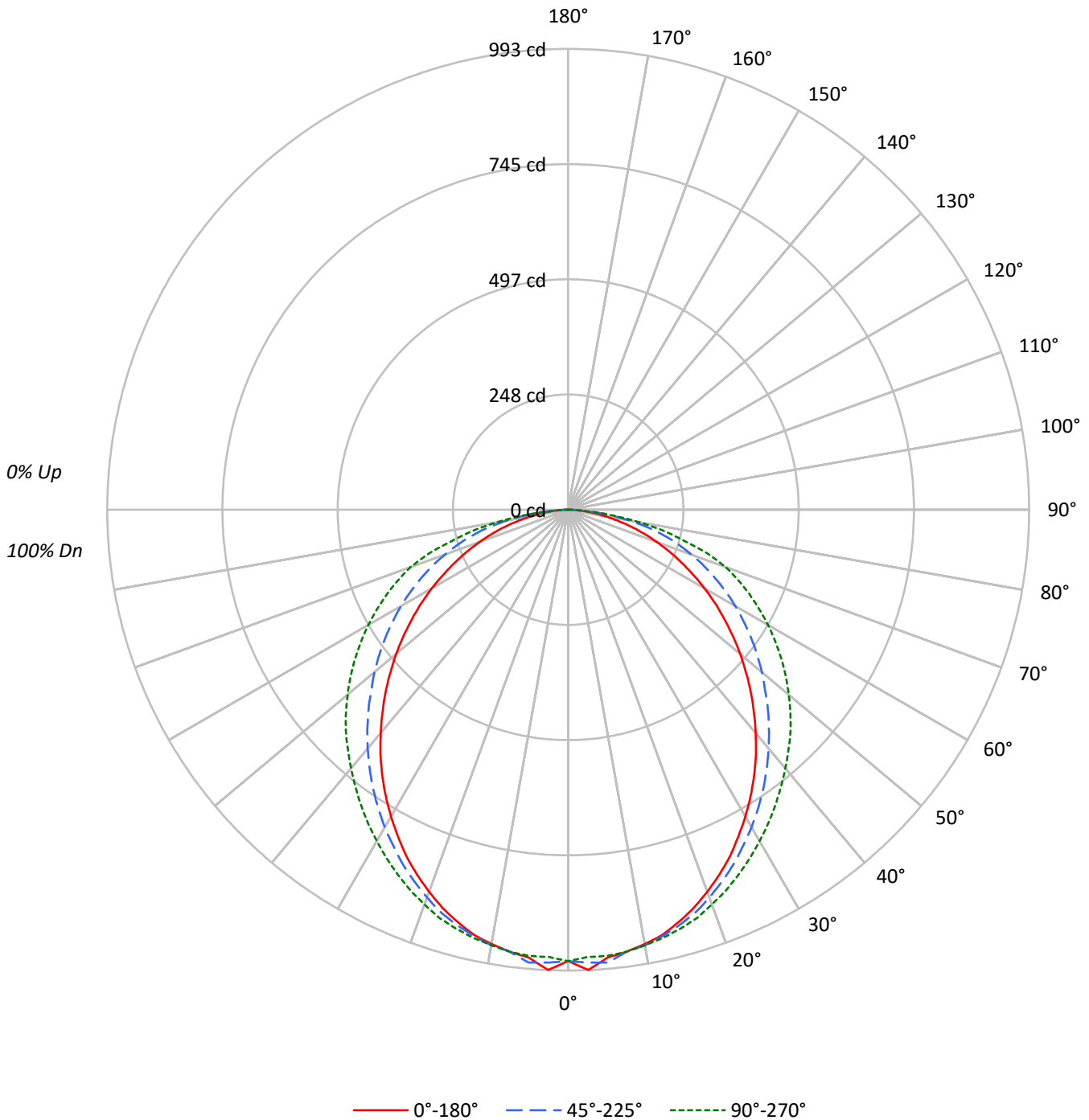
Lumens per Lamp: N/A
Luminaire Lumens: 2725.3 lumens
Efficiency: N/A
Efficacy: 138.9 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.26 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.1')
CIE Type: Direct

Input Watts (W): 19.62
Input Voltage (V): NR
Input Current (A_{in}): 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				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°	2618	2618	2618
5°	2606	2629	2595
10°	2574	2572	2581
15°	2528	2533	2568
20°	2464	2482	2546
25°	2392	2423	2519
30°	2305	2358	2489
35°	2217	2294	2469
40°	2118	2228	2453
45°	2017	2162	2454
50°	1911	2103	2450
55°	1799	2050	2455
60°	1681	1995	2462
65°	1547	1935	2477
70°	1403	1860	2494
75°	1220	1755	2264
80°	976	1466	1856
85°	678	861	963



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.3	3.4
10°-20°	261.3	9.6
20°-30°	388.8	14.3
30°-40°	459.8	16.9
40°-50°	472.6	17.3
50°-60°	431.8	15.8
60°-70°	345.4	12.7
70°-80°	216.8	8.0
80°-90°	56.5	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°	742.4	27.2
0°-40°	1202.1	44.1
0°-60°	2106.6	77.3
0°-90°	2725.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2725.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	973	973	973	973	973	
5°	969	969	979	973	965	92
15°	920	921	926	932	934	259
25°	824	830	843	857	868	379
35°	698	708	733	761	778	436
45°	557	571	608	653	677	429
55°	411	431	481	534	561	367
65°	269	293	350	403	431	267
75°	139	166	213	245	258	148
85°	34	44	50	49	49	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	972.7	972.7	972.7	972.7	972.7
2.5°	992.6	988.6	976.7	968.8	964.8
5°	968.8	968.8	979.4	972.7	964.8
7.5°	960.8	960.8	960.8	980.7	960.8
10°	950.2	951.5	952.9	960.8	952.9
12.5°	938.3	938.3	940.9	943.6	944.9
15°	919.7	921.1	926.4	931.7	934.3
17.5°	899.8	903.8	910.4	917.1	922.4
20°	876.0	881.3	889.2	899.8	905.1
22.5°	850.8	856.1	866.7	878.6	887.9
25°	824.3	829.6	842.9	857.4	868.0
27.5°	793.8	800.5	816.4	836.2	846.8
30°	763.3	771.3	789.9	812.4	824.3
32.5°	731.5	740.8	762.0	787.2	801.8
35°	698.4	707.7	732.9	760.7	777.9
37.5°	664.0	674.6	702.4	734.2	752.7
40°	628.2	640.1	671.9	706.4	727.6
42.5°	592.4	605.6	640.1	681.2	702.4
45°	556.6	571.2	608.3	653.4	677.2
47.5°	519.5	536.7	575.2	625.5	649.4
50°	483.7	500.9	544.7	596.4	620.2
52.5°	446.6	466.5	512.9	565.9	591.1
55°	410.8	430.7	481.1	534.1	560.6
57.5°	375.0	394.9	447.9	502.3	528.8
60°	339.3	360.5	416.1	469.1	497.0
62.5°	303.5	326.0	383.0	437.3	463.8
65°	269.0	292.9	349.9	402.9	430.7
67.5°	235.9	261.1	316.7	368.4	396.3
70°	202.8	227.9	282.3	332.6	360.5
72.5°	171.0	196.1	249.1	294.2	315.4
75°	139.2	165.7	213.4	245.2	258.4
77.5°	108.7	135.2	176.3	197.5	212.0
80°	80.8	103.4	132.5	148.4	153.7
82.5°	55.7	74.2	92.8	96.7	99.4
85°	34.5	43.7	50.4	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)