

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-S-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 (P25712)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-24SE-S-UNV-L850-CD1-U
Description: CRUZE 2x2 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

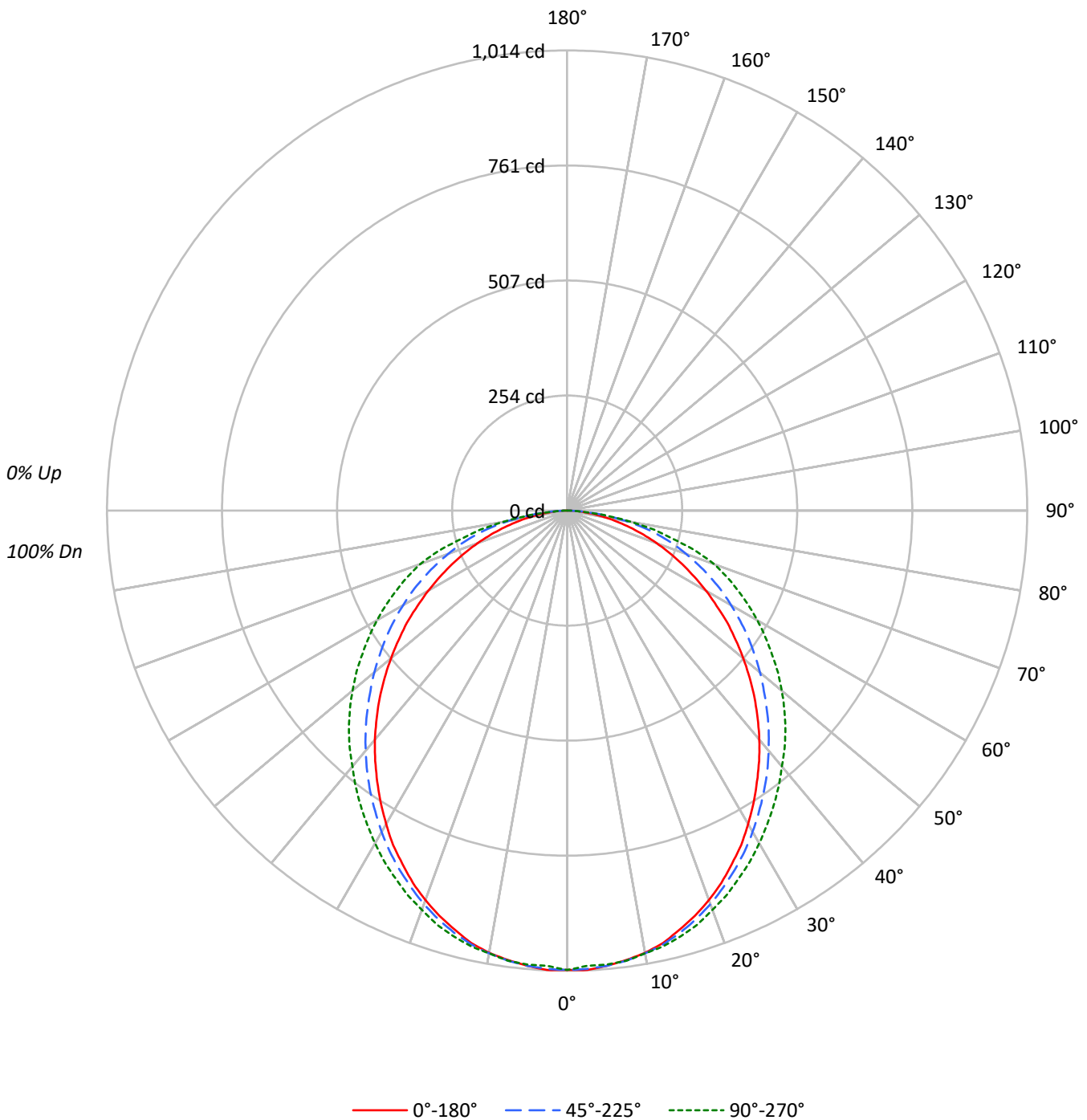
Lumens per Lamp: N/A
Luminaire Lumens: 2776.4 lumens
Efficiency: N/A
Efficacy: 131.6 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.1')
CIE Type: Direct

Input Watts (W): 21.1
Input Voltage (V): NR
Input Current (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	109	104	99	95	106	101	97	94	97	94	91		93	91	88		90	87	85	83
2	99	90	83	77	96	88	82	77	85	79	75		81	77	73		78	75	71	69
3	90	79	71	64	87	78	70	64	75	68	63		72	66	62		69	64	60	58
4	82	70	61	54	80	69	61	54	66	59	53		64	58	53		62	56	52	50
5	76	63	54	47	74	62	53	47	59	52	46		57	51	46		56	50	45	43
6	70	56	47	41	68	56	47	41	54	46	40		52	45	40		50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36		47	41	36		46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32		43	37	32		42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29		40	34	29		39	33	29	27
10	53	40	32	26	52	39	32	26	38	31	26		37	31	26		36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2724	2724	2724
5°	2708	2703	2701
10°	2680	2674	2684
15°	2628	2632	2669
20°	2569	2576	2633
25°	2492	2511	2596
30°	2409	2441	2557
35°	2315	2367	2519
40°	2221	2291	2482
45°	2117	2214	2465
50°	2002	2142	2439
55°	1886	2074	2412
60°	1750	2001	2398
65°	1610	1925	2385
70°	1449	1836	2380
75°	1250	1723	2115
80°	1014	1446	1707
85°	682	842	864



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.6	3.4
10°-20°	271.5	9.8
20°-30°	403.3	14.5
30°-40°	474.7	17.1
40°-50°	483.9	17.4
50°-60°	436.5	15.7
60°-70°	343.8	12.4
70°-80°	212.1	7.6
80°-90°	55.1	2.0
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°	770.4	27.7
0°-40°	1245.1	44.8
0°-60°	2165.5	78.0
0°-90°	2776.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2776.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1012	1012	1012	1012	1012	
5°	1007	1008	1007	1006	1004	96
15°	956	960	963	968	971	270
25°	859	864	874	888	895	396
35°	729	737	756	780	794	456
45°	584	593	623	660	680	450
55°	431	445	487	531	551	384
65°	280	300	348	392	415	277
75°	143	167	209	233	241	152
85°	35	44	49	47	44	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1012.2	1012.2	1012.2	1012.2	1012.2
2.5°	1013.5	1013.5	1010.8	1008.2	1004.2
5°	1006.8	1008.2	1006.8	1005.5	1004.2
7.5°	998.8	1000.2	1000.2	1000.2	1000.2
10°	989.5	990.8	990.8	990.8	990.8
12.5°	976.2	977.5	978.8	980.2	982.8
15°	956.1	960.1	962.8	968.2	970.8
17.5°	936.1	940.1	944.1	950.8	956.1
20°	913.5	916.1	922.8	930.8	936.1
22.5°	888.1	892.1	898.8	909.5	917.5
25°	858.8	864.1	873.5	888.1	894.8
27.5°	830.8	834.8	846.8	862.8	872.1
30°	797.5	802.8	817.5	837.5	846.8
32.5°	764.1	770.8	786.8	809.5	820.1
35°	729.4	737.4	756.1	780.1	793.5
37.5°	694.8	702.8	724.1	750.8	765.5
40°	658.8	666.8	690.8	720.1	736.1
42.5°	621.4	630.8	657.4	690.8	709.4
45°	584.1	593.4	622.8	660.1	680.1
47.5°	545.4	556.1	588.1	629.4	649.4
50°	506.7	518.7	554.8	597.4	617.4
52.5°	468.1	481.4	520.1	564.1	585.4
55°	430.7	445.4	486.7	530.7	550.8
57.5°	390.7	408.1	452.1	494.7	517.4
60°	353.4	372.1	417.4	460.1	484.1
62.5°	316.0	336.1	384.1	426.7	449.4
65°	280.0	300.0	348.1	392.1	414.7
67.5°	244.0	266.7	313.4	357.4	380.1
70°	209.4	233.4	278.7	321.4	344.1
72.5°	176.0	200.0	245.4	285.4	298.7
75°	142.7	166.7	209.4	233.4	241.4
77.5°	112.0	134.7	172.0	186.7	197.4
80°	84.0	104.0	130.7	140.0	141.4
82.5°	57.3	74.7	90.7	92.0	90.7
85°	34.7	44.0	49.3	46.7	44.0
87.5°	16.0	17.3	16.0	10.7	6.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)