

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-LD5-32SE-UNV-L830-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-LD5-32SE-UNV-L830-CD1-U
Description: CRUZE 2x2 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3015.1 lumens
Efficiency: N/A
Efficacy: 98.8 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

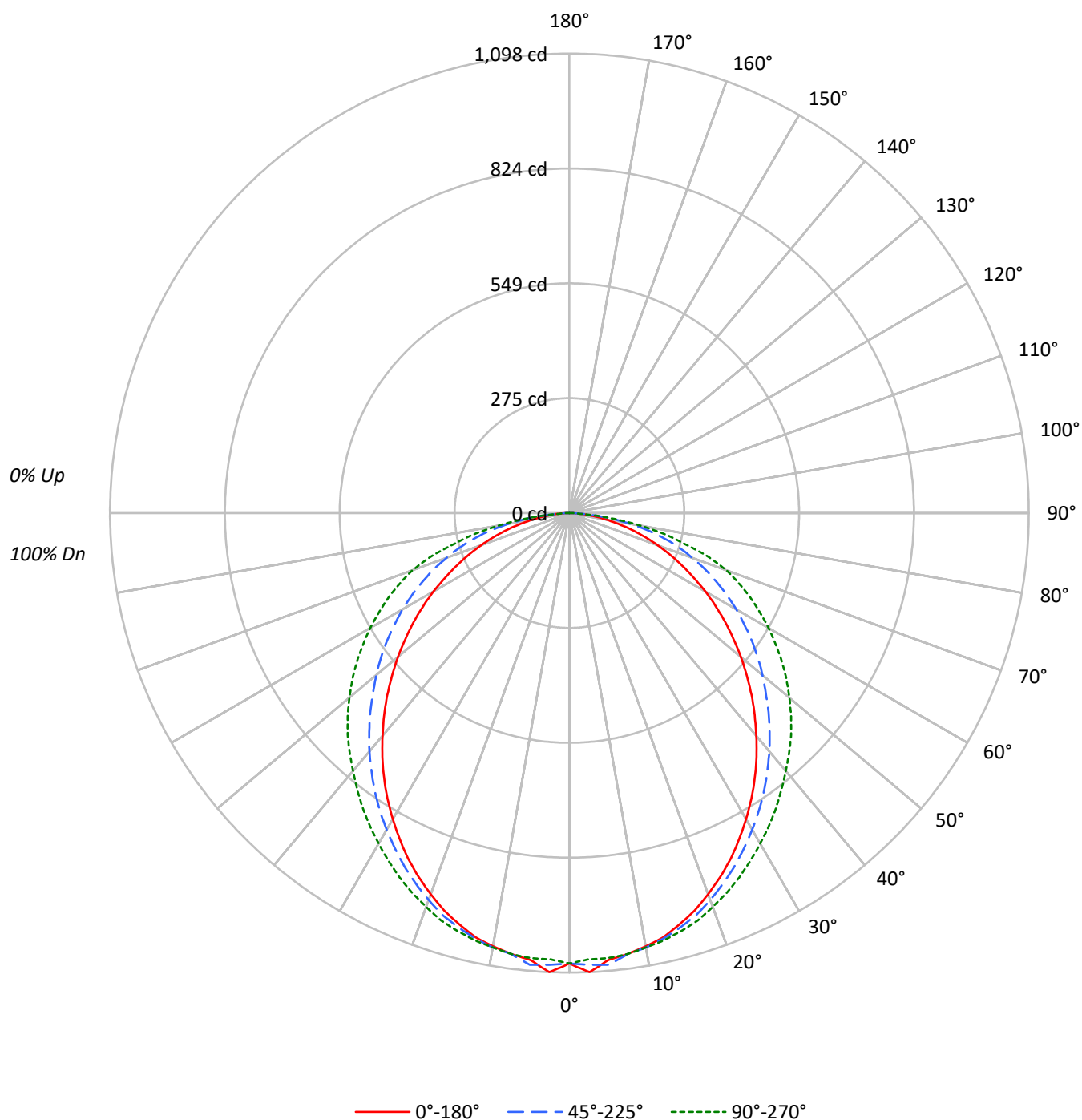
Input Watts (W): 30.53
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P#

CATALOG NUMBER: 22CZ-LD5-32SE-UNV-L830-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 22CZ-LD5-32SE-UNV-L830-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		0
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		100
1	108	104	99	95	106	101	97	94	97	94	91		93	90	88		83
2	98	90	83	77	96	88	82	76	84	79	74		81	77	73		69
3	90	79	70	64	87	77	69	63	74	68	62		71	66	61		58
4	82	70	61	54	80	68	60	54	66	59	53		64	57	52		49
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		43
6	70	56	47	41	68	55	47	40	53	46	40		52	45	40		37
7	65	51	42	36	63	50	42	36	48	41	35		47	40	35		33
8	60	46	38	32	58	46	38	32	44	37	32		43	36	31		29
9	56	43	34	29	55	42	34	29	41	34	29		40	33	28		26
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2896	2896	2896
5°	2883	2909	2871
10°	2848	2845	2855
15°	2797	2802	2842
20°	2726	2747	2816
25°	2646	2680	2787
30°	2551	2609	2754
35°	2453	2538	2732
40°	2343	2465	2714
45°	2232	2392	2716
50°	2114	2327	2711
55°	1990	2268	2716
60°	1859	2207	2724
65°	1711	2140	2740
70°	1552	2057	2759
75°	1349	1942	2506
80°	1079	1622	2052
85°	749	951	1065



TEST NUMBER: P#

CATALOG NUMBER: 22CZ-LD5-32SE-UNV-L830-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.1	3.4
10°-20°	289.1	9.6
20°-30°	430.1	14.3
30°-40°	508.7	16.9
40°-50°	522.8	17.3
50°-60°	477.8	15.8
60°-70°	382.2	12.7
70°-80°	239.9	8.0
80°-90°	62.5	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°	821.3	27.2
0°-40°	1330.0	44.1
0°-60°	2330.6	77.3
0°-90°	3015.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3015.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1076	1076	1076	1076	1076	
5°	1072	1072	1084	1076	1067	102
15°	1018	1019	1025	1031	1034	287
25°	912	918	932	949	960	419
35°	773	783	811	842	861	483
45°	616	632	673	723	749	475
55°	454	476	532	591	620	407
65°	298	324	387	446	476	295
75°	154	183	236	271	286	164
85°	38	48	56	54	54	44
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 22CZ-LD5-32SE-UNV-L830-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1076.2	1076.2	1076.2	1076.2	1076.2
2.5°	1098.2	1093.8	1080.6	1071.8	1067.4
5°	1071.8	1071.8	1083.6	1076.2	1067.4
7.5°	1063.0	1063.0	1063.0	1085.0	1063.0
10°	1051.3	1052.7	1054.2	1063.0	1054.2
12.5°	1038.1	1038.1	1041.0	1044.0	1045.4
15°	1017.5	1019.0	1024.9	1030.8	1033.7
17.5°	995.5	1000.0	1007.3	1014.6	1020.5
20°	969.2	975.0	983.8	995.5	1001.4
22.5°	941.3	947.2	958.9	972.1	982.4
25°	912.0	917.8	932.5	948.7	960.4
27.5°	878.3	885.6	903.2	925.2	936.9
30°	844.6	853.3	873.8	898.8	912.0
32.5°	809.3	819.6	843.0	871.0	887.0
35°	772.7	783.0	810.8	841.6	860.7
37.5°	734.5	746.3	777.1	812.2	832.8
40°	695.0	708.1	743.4	781.5	804.9
42.5°	655.4	670.0	708.1	753.6	777.1
45°	615.8	631.9	673.0	722.9	749.3
47.5°	574.8	593.8	636.3	692.1	718.5
50°	535.1	554.2	602.6	659.8	686.2
52.5°	494.1	516.1	567.4	626.0	653.9
55°	454.5	476.5	532.2	590.9	620.2
57.5°	415.0	436.9	495.6	555.7	585.0
60°	375.3	398.8	460.4	519.1	549.9
62.5°	335.7	360.7	423.7	483.8	513.2
65°	297.6	324.0	387.0	445.7	476.5
67.5°	261.0	288.8	350.5	407.6	438.4
70°	224.3	252.2	312.3	368.0	398.8
72.5°	189.1	217.0	275.7	325.5	348.9
75°	154.0	183.3	236.1	271.2	286.0
77.5°	120.3	149.5	195.0	218.5	234.6
80°	89.4	114.4	146.6	164.3	170.0
82.5°	61.6	82.1	102.6	107.1	110.0
85°	38.1	48.4	55.7	54.2	54.2
87.5°	17.6	19.1	16.2	11.7	7.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)