

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-S-UNV-L835-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-LD5-32SE-S-UNV-L835-CD1-U
Description: CRUZE 2x2 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

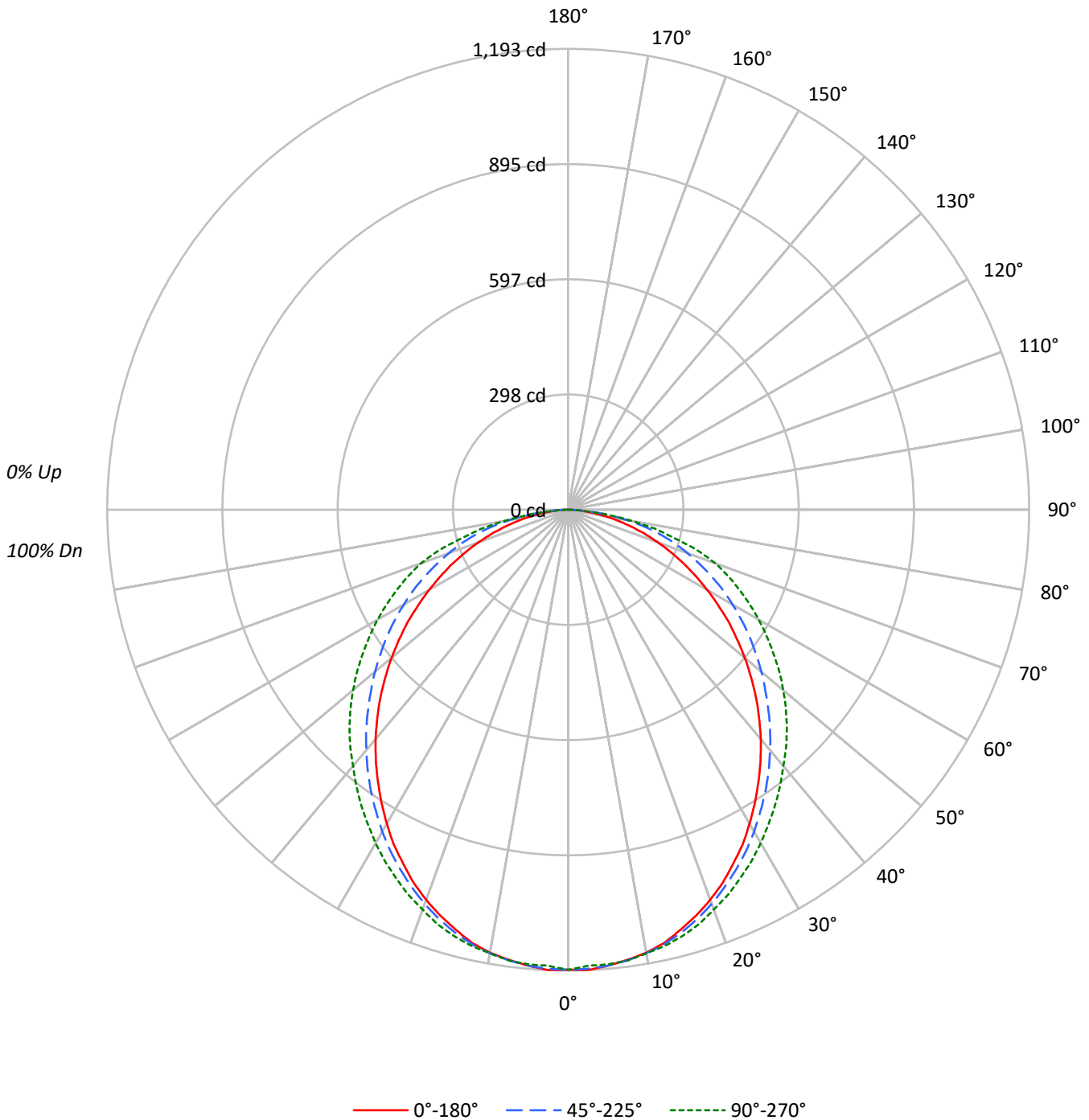
Lumens per Lamp: N/A
Luminaire Lumens: 3267.1 lumens
Efficiency: N/A
Efficacy: 107.0 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.1')
CIE Type: Direct

Input Watts (W): 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-S-UNV-L835-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 22CZ-LD5-32SE-S-UNV-L835-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	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°	3205	3205	3205
5°	3187	3181	3178
10°	3154	3147	3158
15°	3093	3098	3141
20°	3023	3032	3098
25°	2932	2954	3055
30°	2834	2872	3010
35°	2725	2785	2964
40°	2613	2696	2920
45°	2491	2605	2901
50°	2356	2520	2870
55°	2220	2441	2838
60°	2059	2355	2821
65°	1895	2265	2806
70°	1704	2161	2801
75°	1471	2027	2488
80°	1194	1701	2008
85°	802	992	1018



TEST NUMBER: P#

CATALOG NUMBER: 22CZ-LD5-32SE-S-UNV-L835-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.5	3.4
10°-20°	319.5	9.8
20°-30°	474.6	14.5
30°-40°	558.6	17.1
40°-50°	569.5	17.4
50°-60°	513.6	15.7
60°-70°	404.6	12.4
70°-80°	249.5	7.6
80°-90°	64.8	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°	906.5	27.7
0°-40°	1465.1	44.8
0°-60°	2548.2	78.0
0°-90°	3267.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3267.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1191	1191	1191	1191	1191	
5°	1185	1186	1185	1183	1182	112
15°	1125	1130	1133	1139	1142	317
25°	1011	1017	1028	1045	1053	466
35°	858	868	890	918	934	537
45°	687	698	733	777	800	530
55°	507	524	573	624	648	452
65°	330	353	410	461	488	326
75°	168	196	246	275	284	179
85°	41	52	58	55	52	48
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 22CZ-LD5-32SE-S-UNV-L835-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1191.0	1191.0	1191.0	1191.0	1191.0
2.5°	1192.6	1192.6	1189.5	1186.3	1181.6
5°	1184.8	1186.3	1184.8	1183.2	1181.6
7.5°	1175.3	1176.9	1176.9	1176.9	1176.9
10°	1164.4	1165.9	1165.9	1165.9	1165.9
12.5°	1148.7	1150.2	1151.8	1153.4	1156.5
15°	1125.1	1129.8	1133.0	1139.3	1142.4
17.5°	1101.6	1106.3	1111.0	1118.9	1125.1
20°	1074.9	1078.1	1085.9	1095.3	1101.6
22.5°	1045.1	1049.8	1057.7	1070.2	1079.6
25°	1010.6	1016.9	1027.8	1045.1	1052.9
27.5°	977.6	982.3	996.5	1015.3	1026.3
30°	938.4	944.7	961.9	985.5	996.5
32.5°	899.2	907.0	925.8	952.5	965.1
35°	858.4	867.8	889.7	918.0	933.7
37.5°	817.6	827.0	852.1	883.5	900.7
40°	775.2	784.6	812.9	847.4	866.2
42.5°	731.3	742.2	773.6	812.9	834.8
45°	687.3	698.3	732.8	776.8	800.3
47.5°	641.8	654.4	692.0	740.7	764.2
50°	596.3	610.4	652.8	703.0	726.5
52.5°	550.8	566.5	612.0	663.8	688.9
55°	506.9	524.1	572.8	624.5	648.1
57.5°	459.8	480.2	532.0	582.2	608.9
60°	415.8	437.8	491.2	541.4	569.6
62.5°	371.9	395.4	451.9	502.1	528.8
65°	329.5	353.1	409.6	461.4	488.0
67.5°	287.2	313.8	368.8	420.6	447.2
70°	246.4	274.6	328.0	378.2	404.9
72.5°	207.1	235.4	288.7	335.8	351.5
75°	167.9	196.2	246.4	274.6	284.0
77.5°	131.8	158.5	202.4	219.7	232.2
80°	98.9	122.4	153.8	164.8	166.3
82.5°	67.5	87.9	106.7	108.3	106.7
85°	40.8	51.8	58.1	54.9	51.8
87.5°	18.8	20.4	18.8	12.6	7.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)