

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-LD5-44-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-LD5-44-S-UNV-L835-CD1-U
Description: CRUZE 2x2 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4521.7 lumens
Efficiency: N/A
Efficacy: 108.2 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

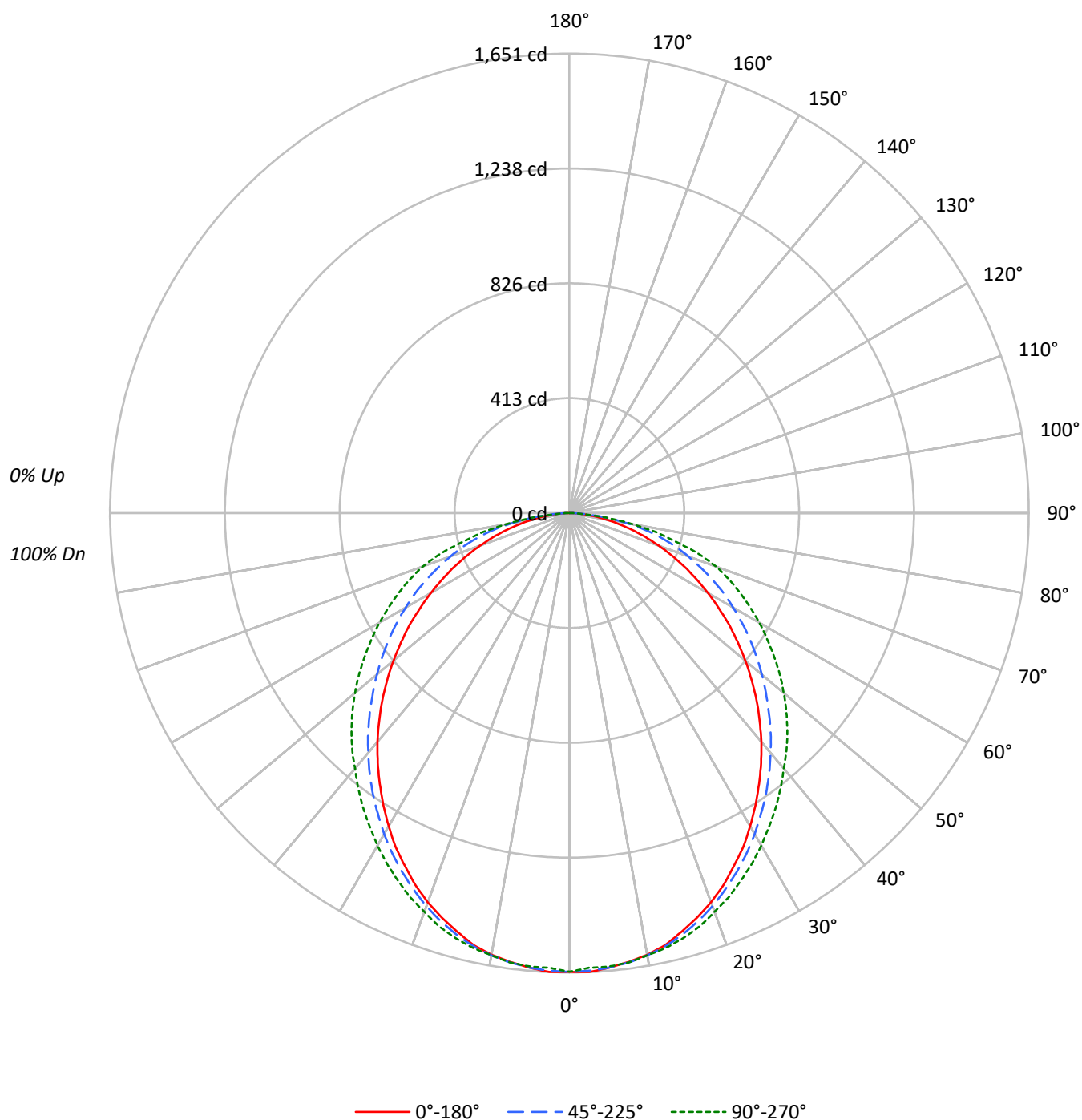
Input Watts (W): 41.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P#

CATALOG NUMBER: 22CZ-LD5-44-S-UNV-L835-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 22CZ-LD5-44-S-UNV-L835-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	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°	4436	4436	4436
5°	4410	4402	4398
10°	4365	4355	4371
15°	4281	4287	4347
20°	4184	4196	4288
25°	4058	4089	4228
30°	3922	3974	4165
35°	3771	3854	4101
40°	3617	3731	4042
45°	3448	3605	4014
50°	3261	3488	3973
55°	3072	3378	3928
60°	2850	3259	3905
65°	2623	3134	3884
70°	2359	2990	3876
75°	2036	2805	3444
80°	1652	2354	2779
85°	1110	1373	1409



TEST NUMBER: P#

CATALOG NUMBER: 22CZ-LD5-44-S-UNV-L835-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.7	3.4
10°-20°	442.2	9.8
20°-30°	656.8	14.5
30°-40°	773.1	17.1
40°-50°	788.2	17.4
50°-60°	710.8	15.7
60°-70°	559.9	12.4
70°-80°	345.4	7.6
80°-90°	89.7	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°	1254.6	27.7
0°-40°	2027.7	44.8
0°-60°	3526.7	78.0
0°-90°	4521.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4521.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1648	1648	1648	1648	1648	
5°	1640	1642	1640	1638	1635	156
15°	1557	1564	1568	1577	1581	439
25°	1399	1407	1422	1446	1457	644
35°	1188	1201	1231	1270	1292	743
45°	951	966	1014	1075	1108	733
55°	702	725	793	864	897	626
65°	456	489	567	638	675	452
75°	232	272	341	380	393	248
85°	56	72	80	76	72	66
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 22CZ-LD5-44-S-UNV-L835-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1648.4	1648.4	1648.4	1648.4	1648.4
2.5°	1650.6	1650.6	1646.2	1641.9	1635.4
5°	1639.7	1641.9	1639.7	1637.6	1635.4
7.5°	1626.7	1628.9	1628.9	1628.9	1628.9
10°	1611.5	1613.7	1613.7	1613.7	1613.7
12.5°	1589.8	1591.9	1594.1	1596.3	1600.6
15°	1557.2	1563.7	1568.1	1576.7	1581.1
17.5°	1524.6	1531.1	1537.6	1548.5	1557.2
20°	1487.7	1492.0	1502.9	1515.9	1524.6
22.5°	1446.4	1452.9	1463.8	1481.2	1494.2
25°	1398.7	1407.3	1422.5	1446.4	1457.3
27.5°	1353.0	1359.6	1379.1	1405.2	1420.4
30°	1298.7	1307.4	1331.3	1363.9	1379.1
32.5°	1244.5	1255.3	1281.4	1318.3	1335.7
35°	1188.0	1201.0	1231.4	1270.5	1292.2
37.5°	1131.5	1144.5	1179.3	1222.7	1246.6
40°	1072.9	1085.9	1125.0	1172.8	1198.8
42.5°	1012.1	1027.3	1070.7	1125.0	1155.4
45°	951.3	966.5	1014.2	1075.1	1107.6
47.5°	888.3	905.6	957.8	1025.1	1057.7
50°	825.3	844.8	903.5	973.0	1005.6
52.5°	762.3	784.0	847.0	918.7	953.4
55°	701.5	725.4	792.7	864.4	897.0
57.5°	636.3	664.6	736.2	805.7	842.7
60°	575.5	605.9	679.8	749.3	788.4
62.5°	514.7	547.3	625.5	695.0	731.9
65°	456.1	488.7	566.8	638.5	675.4
67.5°	397.4	434.4	510.4	582.0	619.0
70°	341.0	380.1	453.9	523.4	560.3
72.5°	286.7	325.8	399.6	464.8	486.5
75°	232.4	271.5	341.0	380.1	393.1
77.5°	182.4	219.4	280.2	304.1	321.4
80°	136.8	169.4	212.8	228.0	230.2
82.5°	93.4	121.6	147.7	149.9	147.7
85°	56.5	71.7	80.4	76.0	71.7
87.5°	26.1	28.2	26.1	17.4	10.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)