

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-LD5-44SE-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-LD5-44SE-UNV-L850-CD1-U
Description: CRUZE 2x2 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4827.1 lumens
Efficiency: N/A
Efficacy: 120.7 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

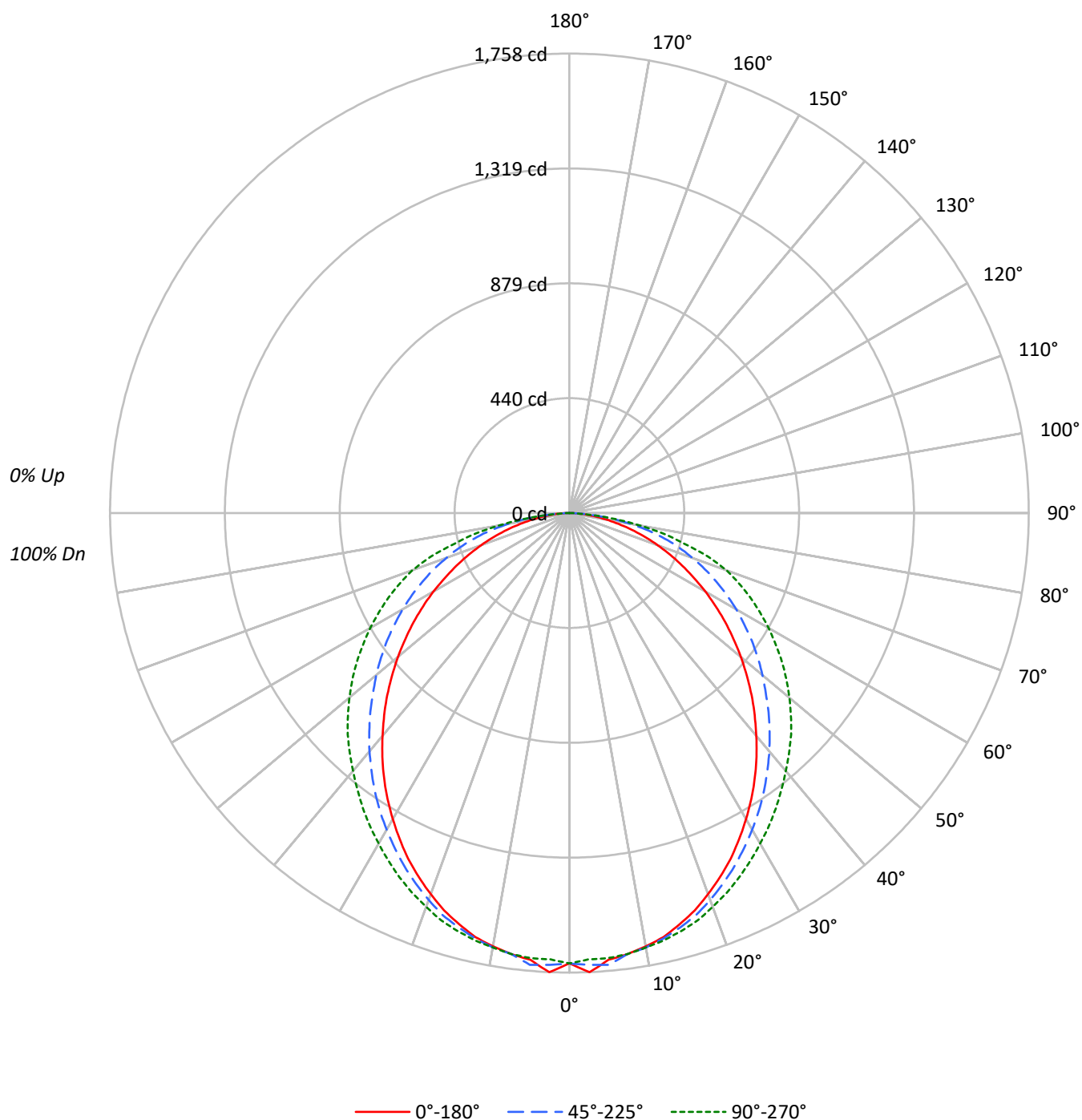
Input Watts (W): 40
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	108	104	99	95	106	101	97	94	97	94	91		93	90	88		89
2	98	90	83	77	96	88	82	76	84	79	74		81	77	73		78
3	90	79	70	64	87	77	69	63	74	68	62		71	66	61		69
4	82	70	61	54	80	68	60	54	66	59	53		64	57	52		61
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		55
6	70	56	47	41	68	55	47	40	53	46	40		52	45	40		50
7	65	51	42	36	63	50	42	36	48	41	35		47	40	35		46
8	60	46	38	32	58	46	38	32	44	37	32		43	36	31		42
9	56	43	34	29	55	42	34	29	41	34	29		40	33	28		39
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4637	4637	4637
5°	4615	4657	4596
10°	4559	4555	4572
15°	4479	4486	4549
20°	4364	4397	4509
25°	4237	4291	4461
30°	4083	4177	4410
35°	3927	4063	4373
40°	3751	3946	4345
45°	3573	3829	4347
50°	3385	3725	4341
55°	3187	3631	4348
60°	2976	3534	4360
65°	2740	3426	4387
70°	2484	3294	4417
75°	2160	3109	4010
80°	1729	2596	3288
85°	1198	1523	1707



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.4	3.4
10°-20°	462.9	9.6
20°-30°	688.6	14.3
30°-40°	814.4	16.9
40°-50°	837.1	17.3
50°-60°	764.9	15.8
60°-70°	611.9	12.7
70°-80°	384.0	8.0
80°-90°	100.0	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°	1314.9	27.2
0°-40°	2129.3	44.1
0°-60°	3731.2	77.3
0°-90°	4827.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4827.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1723	1723	1723	1723	1723	
5°	1716	1716	1735	1723	1709	163
15°	1629	1631	1641	1650	1655	459
25°	1460	1469	1493	1519	1538	671
35°	1237	1254	1298	1347	1378	773
45°	986	1012	1077	1157	1200	760
55°	728	763	852	946	993	651
65°	476	519	620	714	763	473
75°	246	293	378	434	458	262
85°	61	78	89	87	87	71
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1723.0	1723.0	1723.0	1723.0	1723.0
2.5°	1758.2	1751.1	1730.0	1715.9	1708.9
5°	1715.9	1715.9	1734.7	1723.0	1708.9
7.5°	1701.8	1701.8	1701.8	1737.0	1701.8
10°	1683.1	1685.4	1687.8	1701.8	1687.8
12.5°	1661.9	1661.9	1666.6	1671.3	1673.7
15°	1629.1	1631.4	1640.8	1650.2	1654.9
17.5°	1593.9	1600.9	1612.6	1624.4	1633.8
20°	1551.6	1561.0	1575.1	1593.9	1603.2
22.5°	1507.0	1516.4	1535.2	1556.3	1572.7
25°	1460.1	1469.4	1492.9	1518.7	1537.5
27.5°	1406.1	1417.8	1446.0	1481.2	1500.0
30°	1352.1	1366.2	1399.0	1438.9	1460.1
32.5°	1295.7	1312.2	1349.7	1394.3	1420.2
35°	1237.1	1253.5	1298.1	1347.4	1377.9
37.5°	1176.0	1194.8	1244.1	1300.4	1333.3
40°	1112.7	1133.8	1190.1	1251.1	1288.7
42.5°	1049.3	1072.7	1133.8	1206.5	1244.1
45°	985.9	1011.7	1077.4	1157.3	1199.5
47.5°	920.2	950.7	1018.8	1108.0	1150.2
50°	856.8	887.3	964.8	1056.3	1098.6
52.5°	791.1	826.3	908.4	1002.3	1046.9
55°	727.7	762.9	852.1	946.0	992.9
57.5°	664.3	699.5	793.4	889.7	936.6
60°	600.9	638.5	737.1	831.0	880.3
62.5°	537.5	577.5	678.4	774.6	821.6
65°	476.5	518.8	619.7	713.6	762.9
67.5°	417.8	462.4	561.0	652.6	701.9
70°	359.1	403.7	500.0	589.2	638.5
72.5°	302.8	347.4	441.3	521.1	558.7
75°	246.5	293.4	377.9	434.3	457.7
77.5°	192.5	239.4	312.2	349.8	375.6
80°	143.2	183.1	234.7	262.9	272.3
82.5°	98.6	131.5	164.3	171.4	176.1
85°	61.0	77.5	89.2	86.9	86.9
87.5°	28.2	30.5	25.8	18.8	11.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)