

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: P259321

Luminaire Tested: **22CZ-LD5-44-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259321
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-LD5-44-UNV-L82765-W2A1-U-6500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4618.0 lumens
Efficiency: N/A
Efficacy: 127.7 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.26 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

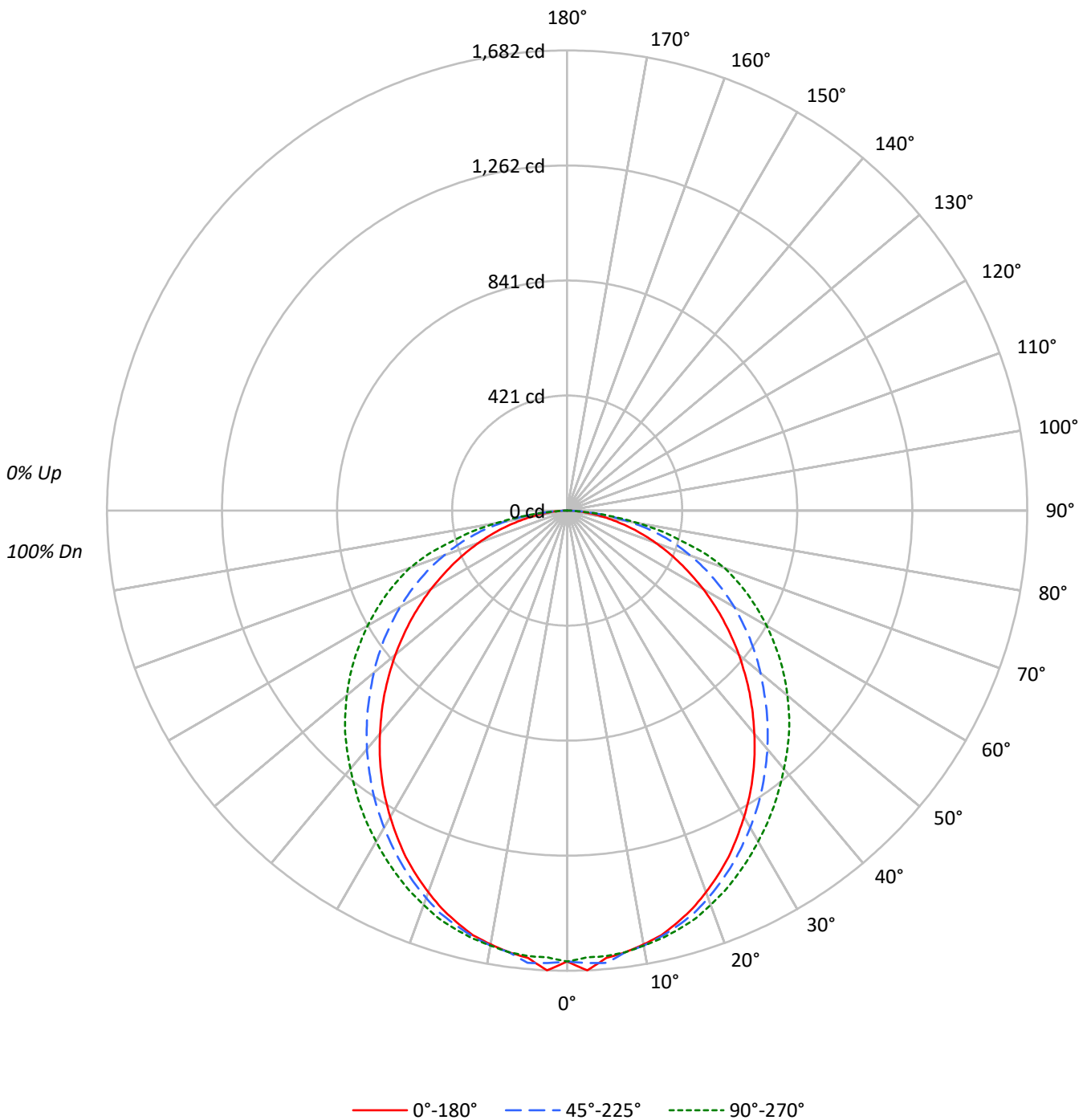
Input Watts (W): 36.177
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69					69			
3	90	79	70	64	87	77	69	63	74	68	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43					43			
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37					37			
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33					33			
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29					29			
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26					26			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4436	4436	4436
5°	4434	4483	4416
10°	4400	4412	4412
15°	4342	4373	4411
20°	4251	4315	4392
25°	4147	4241	4367
30°	4019	4159	4340
35°	3888	4080	4330
40°	3739	4000	4331
45°	3589	3923	4367
50°	3432	3864	4400
55°	3266	3825	4457
60°	3094	3795	4532
65°	2903	3775	4647
70°	2703	3763	4806
75°	2452	3760	4553
80°	2123	3481	4037
85°	1803	2634	2566



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.3	3.4
10°-20°	442.8	9.6
20°-30°	658.8	14.3
30°-40°	779.1	16.9
40°-50°	800.8	17.3
50°-60°	731.7	15.8
60°-70°	585.4	12.7
70°-80°	367.4	8.0
80°-90°	95.7	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°	1257.9	27.2
0°-40°	2037.0	44.1
0°-60°	3569.6	77.3
0°-90°	4618.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4618.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1648	1648	1648	1648	1648	
5°	1642	1642	1660	1648	1635	156
15°	1558	1561	1570	1579	1583	439
25°	1397	1406	1428	1453	1471	642
35°	1184	1199	1242	1289	1318	740
45°	943	968	1031	1107	1148	727
55°	696	730	815	905	950	623
65°	456	496	593	683	730	452
75°	236	281	362	415	438	250
85°	58	74	85	83	83	67
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1648.3	1648.3	1648.3	1648.3	1648.3
2.5°	1682.0	1675.3	1655.1	1641.6	1634.8
5°	1641.6	1641.6	1659.5	1648.3	1634.8
7.5°	1628.1	1628.1	1628.1	1661.8	1628.1
10°	1610.1	1612.4	1614.6	1628.1	1614.6
12.5°	1589.9	1589.9	1594.4	1598.9	1601.2
15°	1558.5	1560.7	1569.7	1578.7	1583.2
17.5°	1524.8	1531.5	1542.8	1554.0	1563.0
20°	1484.4	1493.4	1506.8	1524.8	1533.8
22.5°	1441.7	1450.7	1468.7	1488.9	1504.6
25°	1396.8	1405.8	1428.2	1452.9	1470.9
27.5°	1345.2	1356.4	1383.3	1417.0	1435.0
30°	1293.5	1307.0	1338.4	1376.6	1396.8
32.5°	1239.6	1255.3	1291.3	1333.9	1358.6
35°	1183.5	1199.2	1241.9	1289.0	1318.2
37.5°	1125.1	1143.0	1190.2	1244.1	1275.5
40°	1064.4	1084.7	1138.6	1196.9	1232.9
42.5°	1003.8	1026.3	1084.7	1154.3	1190.2
45°	943.2	967.9	1030.8	1107.1	1147.5
47.5°	880.3	909.5	974.6	1060.0	1100.4
50°	819.7	848.9	923.0	1010.6	1051.0
52.5°	756.8	790.5	869.1	958.9	1001.6
55°	696.2	729.8	815.2	905.0	949.9
57.5°	635.5	669.2	759.0	851.1	896.0
60°	574.9	610.8	705.1	795.0	842.1
62.5°	514.3	552.4	649.0	741.1	786.0
65°	455.9	496.3	592.9	682.7	729.8
67.5°	399.7	442.4	536.7	624.3	671.5
70°	343.6	386.3	478.3	563.7	610.8
72.5°	289.7	332.4	422.2	498.5	534.5
75°	235.8	280.7	361.6	415.4	437.9
77.5°	184.1	229.1	298.7	334.6	359.3
80°	137.0	175.2	224.6	251.5	260.5
82.5°	94.3	125.8	157.2	163.9	168.4
85°	58.4	74.1	85.3	83.1	83.1
87.5°	26.9	29.2	24.7	18.0	11.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)