

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: P880764

Luminaire Tested: **22CZ2-44VHE-S-B2750-W2D-3500K**

Issue Date: 10/2/2024

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

Test Information

Test Method: LM-79-08
Report Number: P880764
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P475230)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 10/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-44VHE-S-B2750-W2D-3500K
Description: 2X2 4400 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND SMOOTH LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

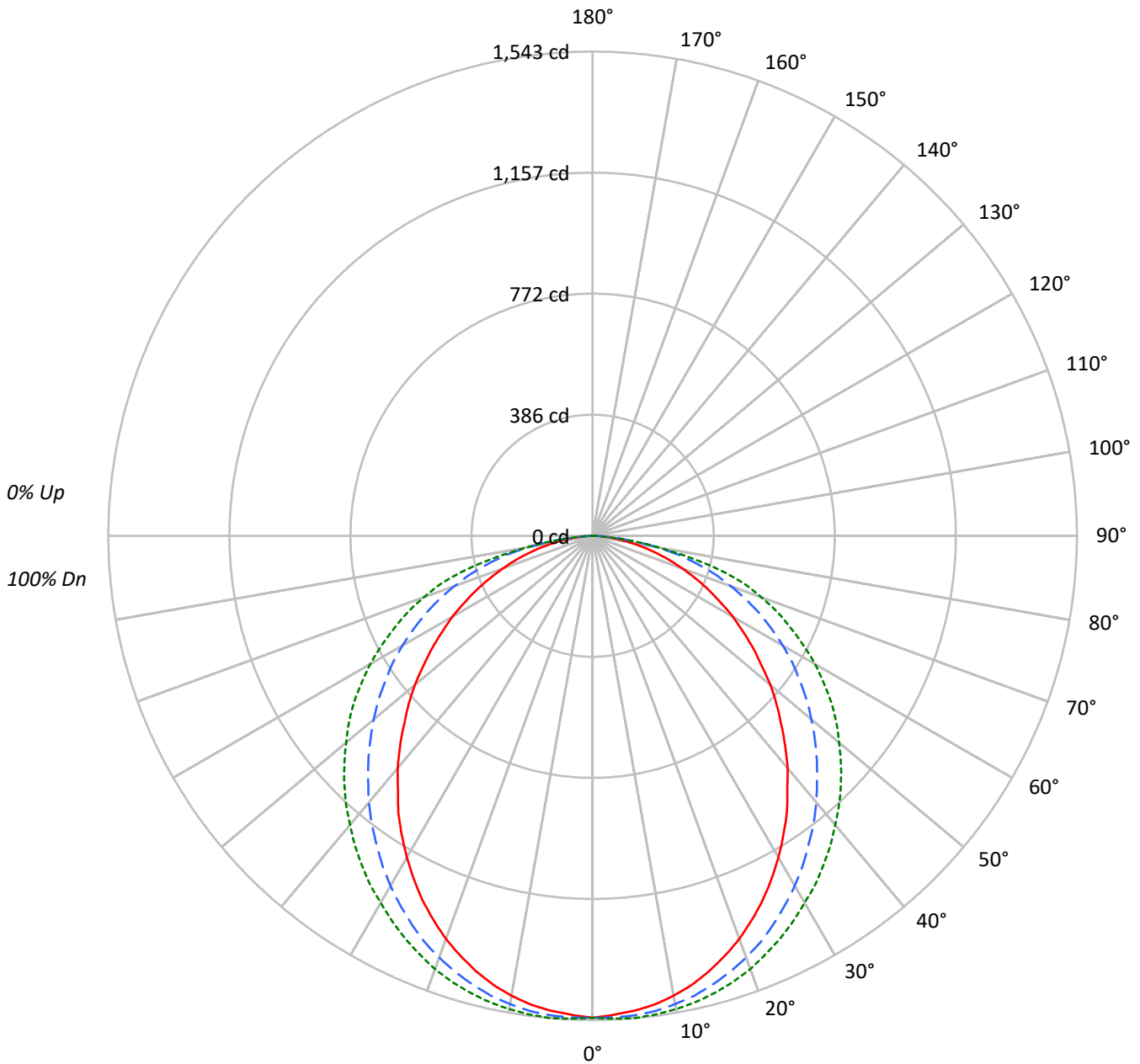
Lumens per Lamp: N/A
Luminaire Lumens: 4398.0 lumens
Efficiency: N/A
Efficacy: 118.9 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.31 / 1.37
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')
CIE Type: Direct

Input Watts (W): 37
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			0	
RW	70	50	30	10	70	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			
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	76	85	79	75	81	77	73	78	75	71	69			
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58			
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43			
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37			
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33			
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29			
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4359	4359	4359
5°	4328	4370	4394
10°	4288	4367	4414
15°	4219	4347	4428
20°	4128	4318	4437
25°	4013	4274	4431
30°	3878	4220	4425
35°	3738	4158	4440
40°	3580	4106	4454
45°	3409	4054	4490
50°	3262	4018	4524
55°	3087	3985	4596
60°	2926	3970	4644
65°	2732	3938	4680
70°	2510	3878	4745
75°	2267	3775	4575
80°	1943	3345	3445
85°	1563	1970	1563



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.7	3.3
10°-20°	416.4	9.5
20°-30°	625.5	14.2
30°-40°	745.9	17.0
40°-50°	771.2	17.5
50°-60°	709.0	16.1
60°-70°	564.5	12.8
70°-80°	344.9	7.8
80°-90°	74.9	1.7
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°	1187.5	27.0
0°-40°	1933.5	44.0
0°-60°	3413.8	77.6
0°-90°	4398.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4398.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1536	1536	1536	1536	1536	
5°	1520	1524	1534	1540	1543	144
15°	1436	1453	1480	1501	1507	404
25°	1282	1313	1365	1403	1415	590
35°	1079	1125	1200	1263	1282	673
45°	850	910	1010	1092	1119	657
55°	624	693	806	898	929	558
65°	407	476	586	668	697	403
75°	207	267	344	405	417	220
85°	48	58	60	52	48	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1536.3	1536.3	1536.3	1536.3	1536.3
2.5°	1528.0	1529.9	1536.3	1540.5	1540.5
5°	1519.5	1523.8	1534.2	1540.5	1542.7
7.5°	1507.2	1513.4	1528.0	1536.3	1538.7
10°	1488.3	1496.8	1515.5	1528.0	1532.0
12.5°	1465.4	1477.9	1500.8	1517.6	1521.6
15°	1436.3	1452.9	1479.8	1500.8	1507.2
17.5°	1402.8	1423.6	1457.1	1482.2	1490.5
20°	1367.1	1388.1	1430.0	1459.0	1469.4
22.5°	1325.5	1352.7	1400.7	1434.2	1442.5
25°	1281.8	1313.0	1365.2	1402.8	1415.3
27.5°	1233.6	1271.4	1327.6	1373.7	1384.1
30°	1183.5	1223.2	1287.9	1338.0	1350.6
32.5°	1131.2	1177.3	1246.1	1302.6	1319.4
35°	1079.0	1125.1	1200.3	1263.1	1281.8
37.5°	1018.5	1072.9	1156.5	1221.3	1244.0
40°	966.5	1018.5	1108.6	1179.5	1202.4
42.5°	907.9	964.4	1058.5	1135.5	1162.7
45°	849.6	910.1	1010.3	1091.8	1119.0
47.5°	795.2	855.7	960.2	1045.9	1072.9
50°	739.0	801.6	910.1	997.7	1024.9
52.5°	678.5	747.2	860.0	947.6	979.1
55°	624.1	692.9	805.6	897.5	929.0
57.5°	567.6	638.8	755.7	843.4	872.7
60°	515.6	584.4	699.5	784.8	818.4
62.5°	459.2	530.1	642.8	726.4	757.9
65°	406.9	475.9	586.5	668.1	697.1
67.5°	354.7	424.0	527.9	605.4	638.8
70°	302.5	371.7	467.4	542.8	571.9
72.5°	256.9	317.4	409.1	478.1	505.2
75°	206.8	267.3	344.3	404.8	417.3
77.5°	160.7	215.0	279.8	306.7	311.2
80°	118.9	160.7	204.7	210.8	210.8
82.5°	79.2	110.6	127.4	129.3	127.4
85°	48.0	58.4	60.5	52.2	48.0
87.5°	16.5	16.5	10.4	6.1	2.1
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)