

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: P880770

Luminaire Tested: **22CZ2-44VHE-SQR-B2750-W2D-4000K**

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: P880770
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-SQR-B2750-W2D-4000K
Description: 2X2 4400 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND SQR LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

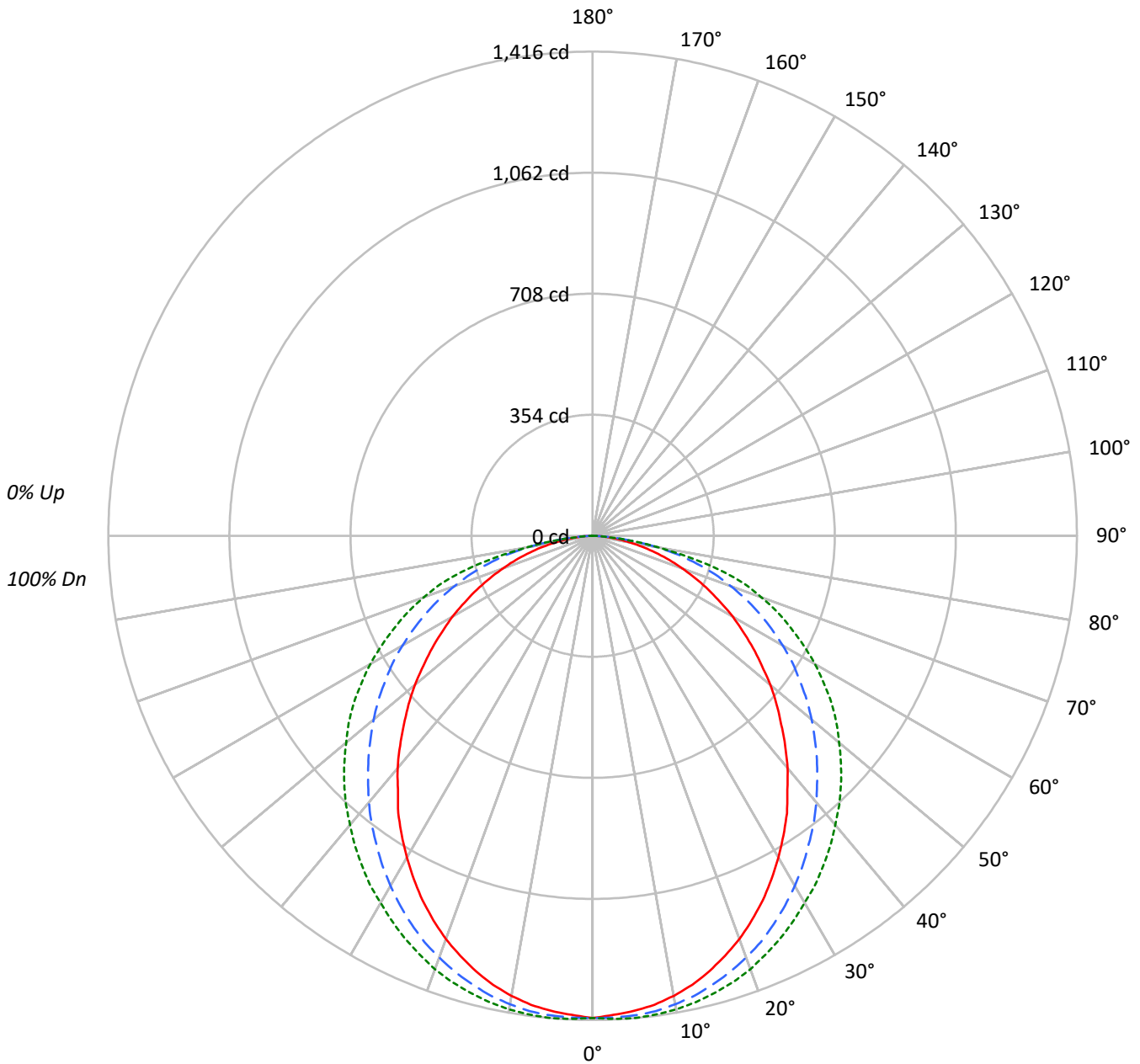
Lumens per Lamp: N/A
Luminaire Lumens: 4037.0 lumens
Efficiency: N/A
Efficacy: 109.1 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.31 / 1.37
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')
CIE Type: Direct

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°	4001	4001	4001
5°	3973	4011	4033
10°	3936	4008	4052
15°	3873	3990	4064
20°	3789	3964	4073
25°	3684	3923	4067
30°	3559	3873	4062
35°	3431	3816	4076
40°	3286	3769	4088
45°	3129	3721	4122
50°	2994	3688	4153
55°	2834	3658	4218
60°	2686	3644	4263
65°	2508	3615	4296
70°	2304	3560	4355
75°	2081	3466	4200
80°	1783	3070	3162
85°	1433	1807	1433



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.7	3.3
10°-20°	382.2	9.5
20°-30°	574.1	14.2
30°-40°	684.7	17.0
40°-50°	707.9	17.5
50°-60°	650.8	16.1
60°-70°	518.1	12.8
70°-80°	316.6	7.8
80°-90°	68.8	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°	1090.1	27.0
0°-40°	1774.8	44.0
0°-60°	3133.5	77.6
0°-90°	4037.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4037.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1410	1410	1410	1410	1410	
5°	1395	1399	1408	1414	1416	132
15°	1318	1334	1358	1378	1384	371
25°	1177	1205	1253	1288	1299	541
35°	990	1033	1102	1159	1177	618
45°	780	835	927	1002	1027	603
55°	573	636	740	824	853	512
65°	374	437	538	613	640	370
75°	190	245	316	372	383	202
85°	44	54	56	48	44	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1410.2	1410.2	1410.2	1410.2	1410.2
2.5°	1402.6	1404.3	1410.2	1414.1	1414.1
5°	1394.8	1398.7	1408.2	1414.1	1416.0
7.5°	1383.5	1389.2	1402.6	1410.2	1412.4
10°	1366.2	1374.0	1391.1	1402.6	1406.3
12.5°	1345.1	1356.6	1377.7	1393.1	1396.7
15°	1318.4	1333.6	1358.3	1377.7	1383.5
17.5°	1287.6	1306.7	1337.5	1360.5	1368.1
20°	1254.9	1274.2	1312.6	1339.3	1348.8
22.5°	1216.7	1241.6	1285.7	1316.5	1324.1
25°	1176.6	1205.2	1253.1	1287.6	1299.1
27.5°	1132.3	1167.0	1218.7	1261.0	1270.5
30°	1086.3	1122.8	1182.2	1228.2	1239.7
32.5°	1038.4	1080.7	1143.8	1195.7	1211.1
35°	990.5	1032.8	1101.7	1159.4	1176.6
37.5°	934.9	984.8	1061.6	1121.0	1141.9
40°	887.2	934.9	1017.6	1082.6	1103.7
42.5°	833.4	885.2	971.6	1042.3	1067.2
45°	779.8	835.4	927.3	1002.2	1027.1
47.5°	729.9	785.5	881.3	960.1	984.8
50°	678.3	735.8	835.4	915.8	940.8
52.5°	622.8	685.9	789.4	869.8	898.7
55°	572.9	636.0	739.5	823.9	852.7
57.5°	521.0	586.3	693.7	774.2	801.1
60°	473.3	536.4	642.1	720.4	751.2
62.5°	421.5	486.6	590.0	666.8	695.7
65°	373.5	436.9	538.4	613.2	639.9
67.5°	325.6	389.2	484.6	555.7	586.3
70°	277.7	341.2	429.1	498.3	524.9
72.5°	235.8	291.3	375.5	438.8	463.8
75°	189.8	245.3	316.1	371.6	383.1
77.5°	147.5	197.4	256.8	281.6	285.7
80°	109.1	147.5	187.9	193.5	193.5
82.5°	72.7	101.5	116.9	118.7	116.9
85°	44.0	53.6	55.5	47.9	44.0
87.5°	15.2	15.2	9.5	5.6	2.0
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)