

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: P880918

Luminaire Tested: **24CZ2-50VHE-SQR-B2750-W2D-3000K**

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: P880918
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P474669)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 10/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-50VHE-SQR-B2750-W2D-3000K
Description: 2X4 5000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND SQR LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

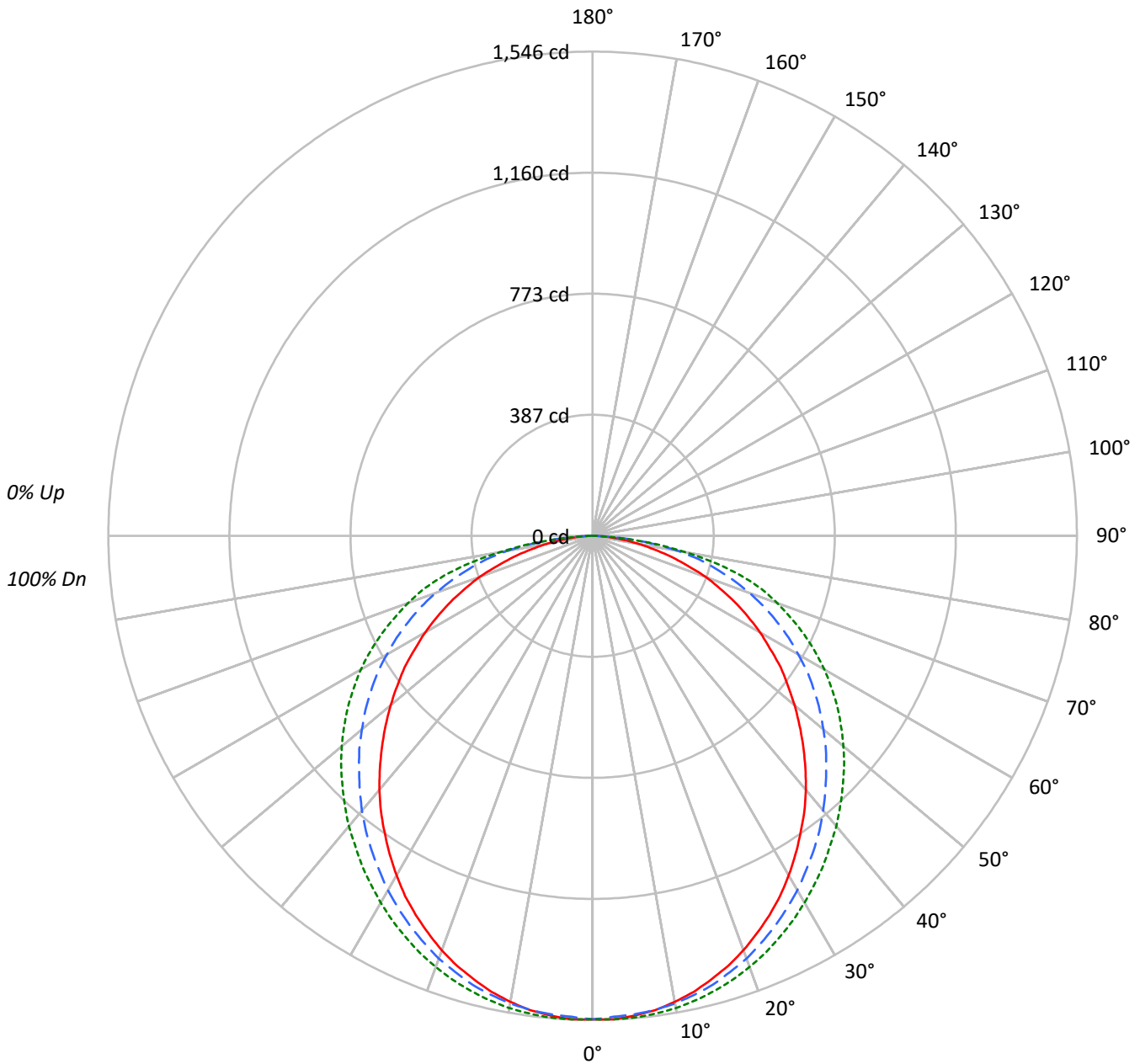
Lumens per Lamp: N/A
Luminaire Lumens: 4701.0 lumens
Efficiency: N/A
Efficacy: 123.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.3 / 1.39
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 38
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				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				100
1	108	103	98	94	105	101	96	93	96	93	90	92	90	87	89	87	84	82				82
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70	68				68
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	59	56				56
4	81	69	59	53	79	67	59	52	65	57	51	62	56	51	60	55	50	48				48
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41				41
6	69	55	46	39	67	54	45	39	52	44	39	50	43	38	49	43	38	36				36
7	64	50	41	34	62	49	40	34	47	40	34	46	39	34	44	38	33	31				31
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28				28
9	55	42	33	28	54	41	33	27	40	32	27	39	32	27	38	31	27	25				25
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23				23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2179	2179	2179
5°	2179	2173	2188
10°	2166	2173	2195
15°	2142	2168	2198
20°	2115	2158	2201
25°	2081	2143	2201
30°	2040	2130	2204
35°	1994	2117	2213
40°	1951	2110	2231
45°	1898	2105	2254
50°	1847	2111	2295
55°	1804	2125	2347
60°	1742	2141	2412
65°	1673	2167	2485
70°	1587	2197	2585
75°	1422	2228	2670
80°	1196	2234	2423
85°	887	1689	1593



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.3	3.1
10°-20°	419.4	8.9
20°-30°	634.8	13.5
30°-40°	768.0	16.3
40°-50°	810.6	17.2
50°-60°	764.5	16.3
60°-70°	630.3	13.4
70°-80°	413.4	8.8
80°-90°	113.7	2.4
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°	1200.6	25.5
0°-40°	1968.5	41.9
0°-60°	3543.6	75.4
0°-90°	4701.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4701.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1544	1544	1544	1544	1544	
5°	1538	1538	1534	1544	1544	146
15°	1466	1474	1484	1501	1504	414
25°	1336	1353	1376	1404	1413	615
35°	1157	1187	1229	1271	1284	725
45°	951	994	1054	1111	1130	734
55°	733	785	864	928	954	653
65°	501	561	649	718	744	495
75°	261	327	408	473	490	275
85°	55	95	104	101	98	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1544.2	1544.2	1544.2	1544.2	1544.2
2.5°	1545.6	1544.2	1537.4	1546.4	1545.6
5°	1538.1	1538.1	1533.7	1544.2	1544.2
7.5°	1527.6	1528.3	1526.8	1538.8	1538.8
10°	1511.1	1514.1	1516.3	1529.9	1531.3
12.5°	1491.5	1496.9	1501.2	1517.9	1519.4
15°	1466.0	1474.3	1484.0	1501.2	1504.4
17.5°	1439.7	1449.6	1460.1	1482.6	1486.4
20°	1408.2	1419.5	1436.7	1459.3	1465.2
22.5°	1373.0	1388.6	1406.6	1433.7	1441.3
25°	1336.1	1352.6	1375.9	1404.4	1413.4
27.5°	1296.4	1315.8	1342.1	1375.2	1384.9
30°	1252.0	1274.4	1306.9	1342.1	1352.6
32.5°	1205.4	1231.7	1267.7	1306.9	1318.8
35°	1157.4	1187.3	1228.7	1270.8	1284.3
37.5°	1110.0	1140.0	1188.9	1233.2	1245.9
40°	1058.9	1091.9	1145.4	1192.7	1210.7
42.5°	1004.9	1044.0	1100.2	1152.9	1170.1
45°	950.8	993.6	1054.5	1110.7	1129.5
47.5°	896.0	943.3	1010.2	1067.2	1089.0
50°	841.2	891.4	961.3	1022.9	1045.4
52.5°	785.6	838.2	914.0	979.3	999.7
55°	733.1	784.8	863.7	928.3	953.8
57.5°	672.1	730.7	814.1	879.5	904.3
60°	617.3	674.5	758.6	827.7	854.6
62.5°	558.0	616.5	705.2	774.3	800.6
65°	500.9	561.1	649.0	718.0	744.2
67.5°	439.4	502.5	592.6	659.5	685.0
70°	384.6	443.9	532.4	600.9	626.4
72.5°	317.7	385.3	470.1	537.7	565.5
75°	260.7	327.4	408.5	473.2	489.7
77.5°	200.5	267.4	347.7	389.7	401.0
80°	147.2	210.2	274.9	297.5	298.1
82.5°	99.2	154.8	191.6	202.9	201.3
85°	54.8	94.6	104.3	101.3	98.4
87.5°	22.6	31.5	25.5	18.0	14.3
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)