

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: P881017

Luminaire Tested: **24CZ2-70VHE-SQR-B2750-W2D-2700K**

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: P881017
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: 24CZ2-70VHE-SQR-B2750-W2D-2700K
Description: 2X4 7000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT AND SQR LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

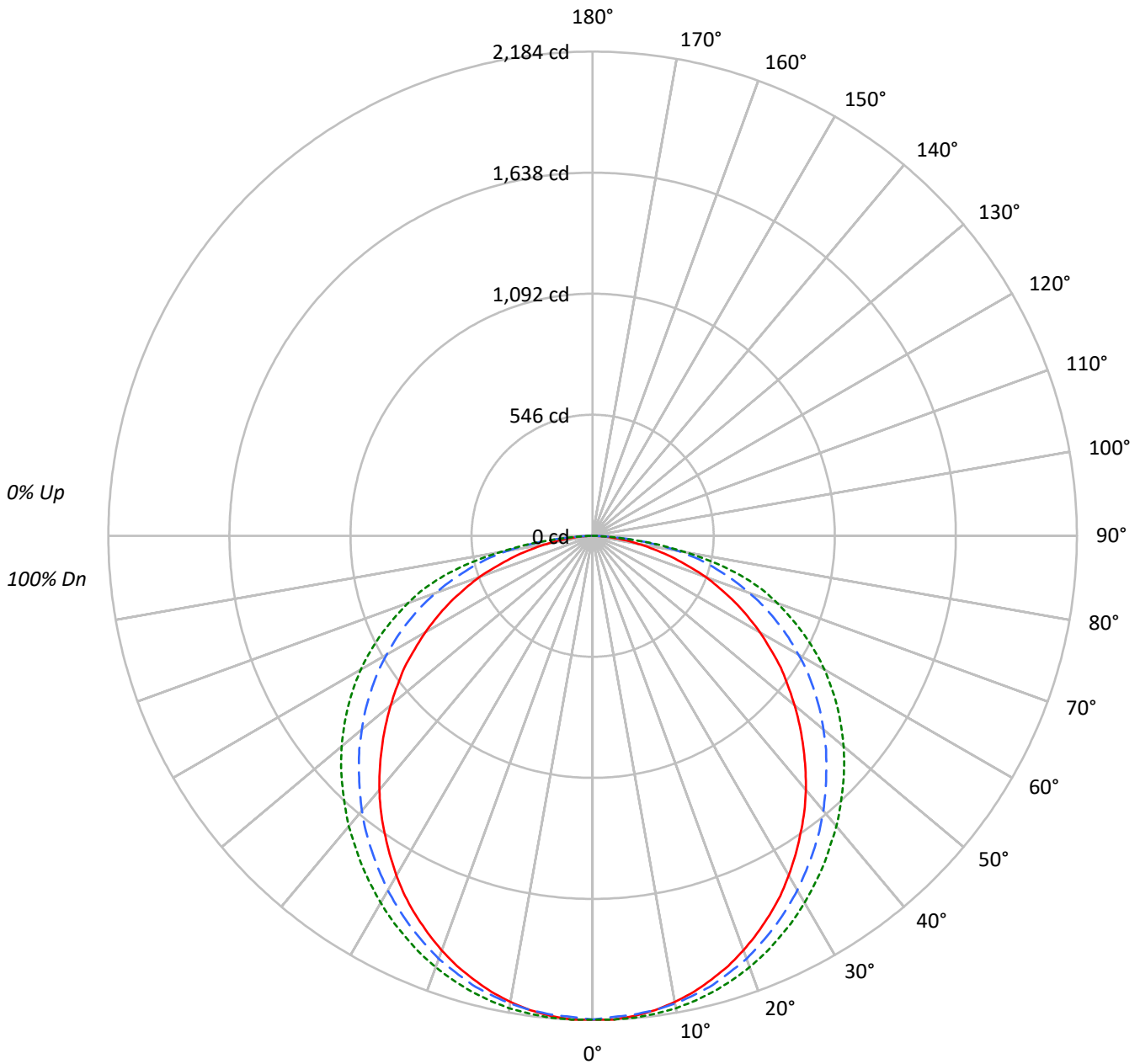
Lumens per Lamp: N/A
Luminaire Lumens: 6643.0 lumens
Efficiency: N/A
Efficacy: 118.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.3 / 1.39
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 56
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°	3080	3080	3080
5°	3079	3070	3091
10°	3060	3071	3101
15°	3027	3064	3106
20°	2989	3049	3110
25°	2940	3028	3110
30°	2883	3010	3115
35°	2818	2992	3127
40°	2757	2982	3152
45°	2682	2974	3186
50°	2610	2983	3244
55°	2549	3003	3316
60°	2462	3026	3409
65°	2364	3063	3512
70°	2242	3105	3653
75°	2008	3148	3773
80°	1691	3158	3423
85°	1255	2387	2251



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.8	3.1
10°-20°	592.6	8.9
20°-30°	897.1	13.5
30°-40°	1085.2	16.3
40°-50°	1145.5	17.2
50°-60°	1080.3	16.3
60°-70°	890.6	13.4
70°-80°	584.2	8.8
80°-90°	160.6	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°	1696.5	25.5
0°-40°	2781.7	41.9
0°-60°	5007.5	75.4
0°-90°	6643.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6643.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2182	2182	2182	2182	2182	
5°	2173	2173	2167	2182	2182	206
15°	2072	2083	2097	2121	2126	584
25°	1888	1911	1944	1985	1997	869
35°	1636	1678	1736	1796	1815	1024
45°	1344	1404	1490	1570	1596	1037
55°	1036	1109	1220	1312	1348	923
65°	708	793	917	1015	1052	699
75°	368	463	577	669	692	389
85°	78	134	147	143	139	96
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2182.1	2182.1	2182.1	2182.1	2182.1
2.5°	2184.1	2182.1	2172.5	2185.2	2184.1
5°	2173.4	2173.4	2167.2	2182.1	2182.1
7.5°	2158.6	2159.7	2157.5	2174.5	2174.5
10°	2135.4	2139.6	2142.7	2161.9	2163.9
12.5°	2107.7	2115.2	2121.4	2144.9	2147.1
15°	2071.6	2083.3	2097.1	2121.4	2125.8
17.5°	2034.4	2048.4	2063.2	2095.1	2100.4
20°	1989.9	2005.9	2030.2	2062.1	2070.5
22.5°	1940.1	1962.3	1987.7	2026.0	2036.6
25°	1888.1	1911.4	1944.3	1984.6	1997.2
27.5°	1831.9	1859.3	1896.5	1943.2	1957.0
30°	1769.2	1800.9	1846.7	1896.5	1911.4
32.5°	1703.3	1740.5	1791.4	1846.7	1863.5
35°	1635.6	1677.8	1736.3	1795.8	1814.8
37.5°	1568.5	1611.0	1680.0	1742.7	1760.6
40°	1496.3	1543.0	1618.5	1685.4	1710.8
42.5°	1420.0	1475.3	1554.8	1629.1	1653.5
45°	1343.6	1404.0	1490.1	1569.6	1596.2
47.5°	1266.1	1333.0	1427.5	1508.1	1538.8
50°	1188.6	1259.7	1358.4	1445.4	1477.3
52.5°	1110.1	1184.4	1291.6	1383.9	1412.7
55°	1035.9	1109.0	1220.5	1311.7	1347.8
57.5°	949.8	1032.6	1150.4	1242.9	1277.9
60°	872.3	953.1	1072.0	1169.6	1207.7
62.5°	788.4	871.2	996.5	1094.1	1131.3
65°	707.9	792.9	917.1	1014.7	1051.6
67.5°	620.9	710.1	837.4	931.9	968.0
70°	543.4	627.3	752.4	849.1	885.2
72.5°	448.9	544.5	664.3	759.9	799.1
75°	368.3	462.6	577.3	668.7	691.9
77.5°	283.3	377.8	491.4	550.7	566.7
80°	208.1	297.1	388.5	420.3	421.2
82.5°	140.1	218.7	270.7	286.6	284.4
85°	77.5	133.7	147.4	143.2	139.0
87.5°	31.9	44.5	36.1	25.5	20.1
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)