

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: P880997

Luminaire Tested: **24CZ2-70VHE-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: P880997
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P473819)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 10/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-70VHE-B2750-W2D-2700K
Description: 2X4 7000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT AND RIBBED LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

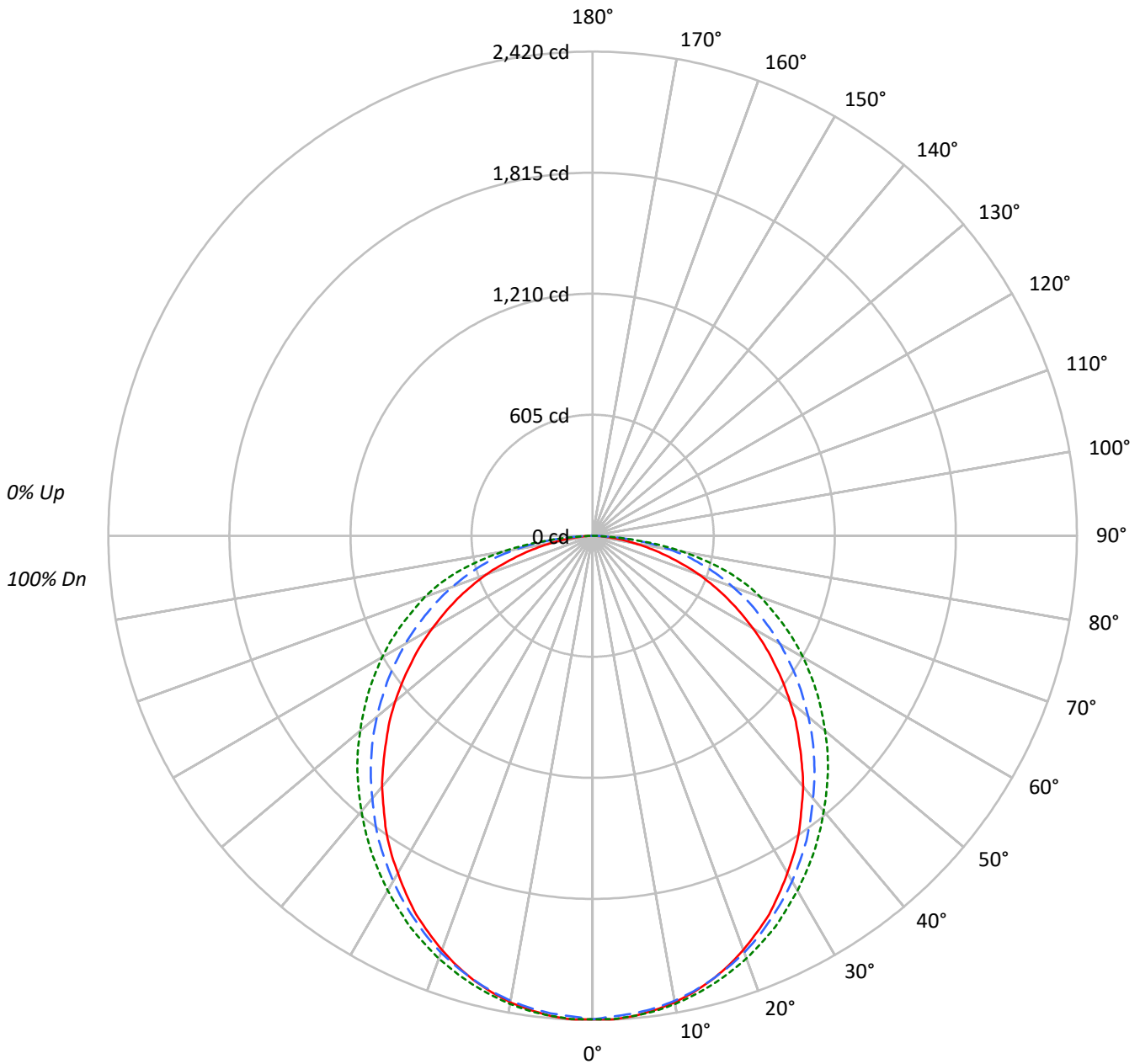
Lumens per Lamp: N/A
Luminaire Lumens: 6993.0 lumens
Efficiency: N/A
Efficacy: 124.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.36
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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				
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	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83			
2	98	89	82	76	95	88	81	75	84	78	74	81	76	72	78	74	70	68			
3	89	78	70	63	87	77	69	63	74	67	61	71	65	60	68	63	59	57			
4	82	69	60	53	79	68	59	53	65	58	52	63	57	51	61	55	51	48			
5	75	62	53	46	73	61	52	46	58	51	45	56	50	44	55	49	44	42			
6	69	56	46	40	67	55	46	40	53	45	39	51	44	39	49	43	39	37			
7	64	50	41	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32			
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29			
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26			
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	36	30	25	23			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3411	3411	3411
5°	3412	3395	3412
10°	3394	3382	3405
15°	3359	3357	3391
20°	3309	3329	3377
25°	3251	3288	3360
30°	3172	3249	3336
35°	3101	3208	3323
40°	3016	3155	3309
45°	2913	3123	3319
50°	2825	3088	3329
55°	2721	3066	3367
60°	2609	3052	3428
65°	2486	3041	3517
70°	2340	3072	3678
75°	2058	3135	3826
80°	1718	3159	3691
85°	1227	2708	2743



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.4	3.3
10°-20°	650.7	9.3
20°-30°	976.1	14.0
30°-40°	1165.4	16.7
40°-50°	1207.2	17.3
50°-60°	1111.3	15.9
60°-70°	896.4	12.8
70°-80°	585.7	8.4
80°-90°	171.7	2.5
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°	1855.2	26.5
0°-40°	3020.7	43.2
0°-60°	5339.1	76.3
0°-90°	6993.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6993.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2416	2416	2416	2416	2416	
5°	2409	2406	2396	2410	2409	229
15°	2299	2299	2298	2321	2321	648
25°	2088	2092	2112	2150	2158	960
35°	1800	1816	1862	1913	1928	1124
45°	1460	1496	1565	1635	1663	1128
55°	1106	1153	1246	1338	1368	990
65°	744	795	911	1014	1053	736
75°	377	448	575	674	702	403
85°	76	131	167	177	169	94
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2416.5	2416.5	2416.5	2416.5	2416.5
2.5°	2419.9	2416.5	2404.1	2418.7	2417.6
5°	2408.6	2406.3	2396.2	2409.7	2408.6
7.5°	2390.5	2389.4	2381.5	2396.2	2396.2
10°	2368.0	2365.7	2360.1	2377.0	2375.9
12.5°	2336.4	2335.3	2331.9	2352.2	2351.0
15°	2298.9	2298.9	2297.8	2320.6	2320.6
17.5°	2253.8	2254.9	2259.5	2285.4	2286.5
20°	2203.1	2207.6	2216.6	2245.9	2248.2
22.5°	2145.3	2154.3	2166.7	2199.7	2203.1
25°	2087.8	2092.3	2111.5	2149.8	2157.7
27.5°	2017.6	2029.1	2054.0	2093.4	2101.3
30°	1946.6	1962.4	1993.9	2034.8	2047.2
32.5°	1876.4	1890.2	1927.4	1973.6	1988.3
35°	1799.7	1815.5	1861.8	1912.7	1928.5
37.5°	1714.9	1739.7	1788.4	1847.1	1864.0
40°	1637.1	1659.6	1712.6	1778.3	1796.3
42.5°	1547.7	1575.9	1640.5	1707.0	1729.6
45°	1459.5	1495.9	1564.7	1634.8	1663.0
47.5°	1377.2	1406.5	1488.0	1566.9	1591.7
50°	1286.7	1320.6	1406.5	1490.2	1516.2
52.5°	1197.6	1238.2	1325.1	1413.3	1441.5
55°	1106.0	1153.4	1246.1	1337.7	1368.2
57.5°	1017.8	1065.4	1161.3	1258.5	1290.1
60°	924.2	975.0	1081.2	1174.8	1214.5
62.5°	833.8	884.5	996.4	1098.1	1135.4
65°	744.4	795.4	910.7	1014.5	1053.0
67.5°	651.9	707.2	830.4	931.0	968.2
70°	567.1	620.1	744.4	851.8	891.3
72.5°	469.9	533.3	659.8	765.9	803.3
75°	377.4	448.5	575.0	674.5	701.6
77.5°	291.5	362.7	489.1	563.7	580.7
80°	211.4	283.6	388.7	440.6	454.1
82.5°	136.7	211.4	281.3	316.3	320.8
85°	75.8	131.1	167.2	177.3	169.4
87.5°	27.1	49.6	48.5	39.5	31.6
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)