

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: P881278

Luminaire Tested: **24CZ2-70VHE-S-UNV-B35**

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: P881278
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P473969)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 10/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-70VHE-S-UNV-B35
Description: 2X4 7000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND SMOOTH LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

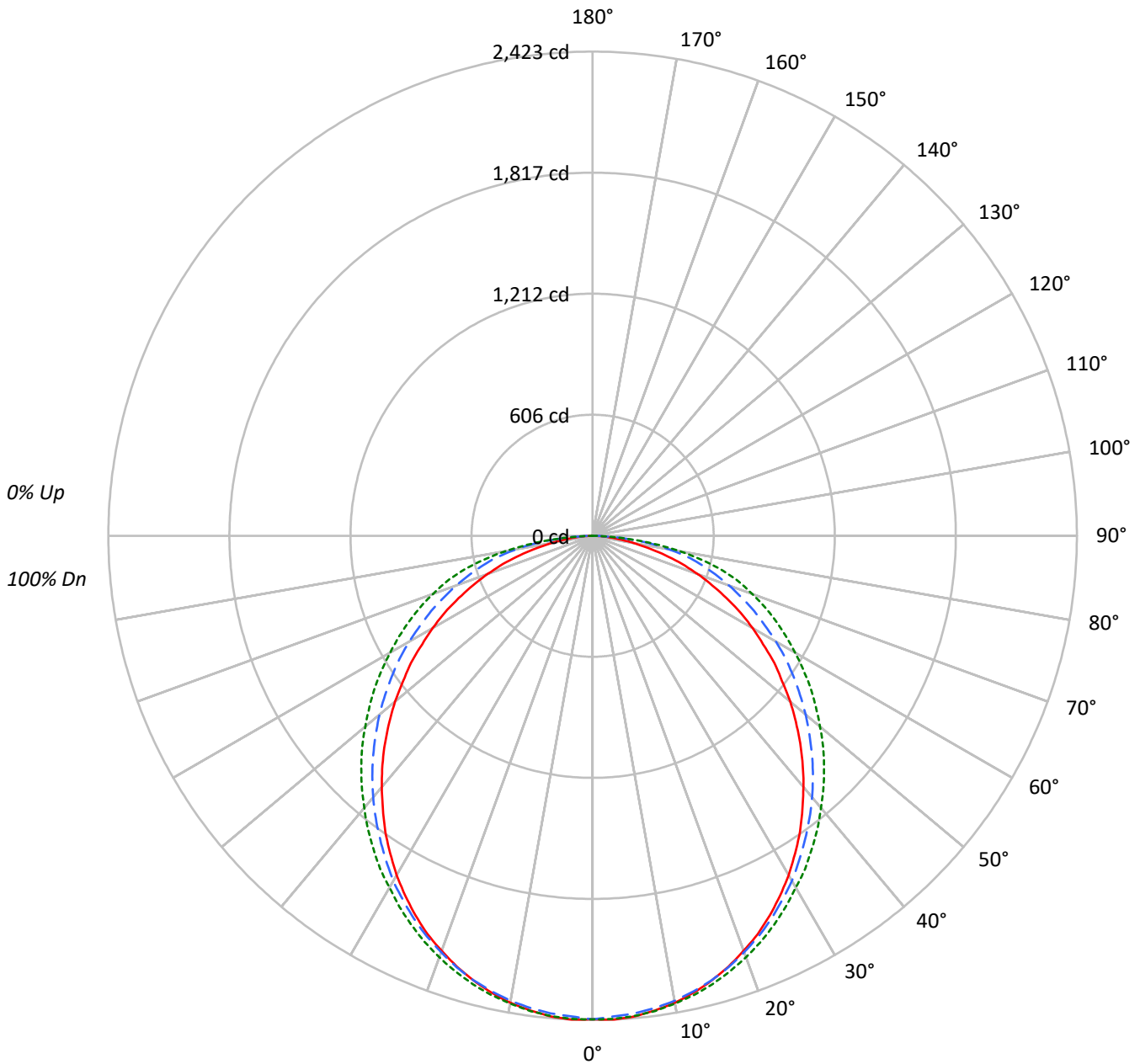
Lumens per Lamp: N/A
Luminaire Lumens: 6933.0 lumens
Efficiency: N/A
Efficacy: 123.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.25 / 1.35
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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									
RC	80									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	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	71	68																			
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	59	57																			
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	55	51	49																			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42																			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37																			
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32																			
8	60	46	38	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29																			
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26																			
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3415	3415	3415
5°	3420	3399	3417
10°	3401	3386	3406
15°	3366	3364	3393
20°	3320	3330	3371
25°	3265	3293	3345
30°	3196	3251	3312
35°	3116	3194	3294
40°	3023	3147	3275
45°	2932	3098	3268
50°	2833	3056	3261
55°	2732	3018	3278
60°	2607	2989	3301
65°	2468	2978	3381
70°	2303	2994	3501
75°	2049	3080	3688
80°	1675	3147	3601
85°	1180	2748	2803



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.8	3.3
10°-20°	651.6	9.4
20°-30°	976.7	14.1
30°-40°	1163.3	16.8
40°-50°	1199.5	17.3
50°-60°	1094.5	15.8
60°-70°	875.2	12.6
70°-80°	571.7	8.2
80°-90°	171.6	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°	1857.1	26.8
0°-40°	3020.4	43.6
0°-60°	5314.5	76.7
0°-90°	6933.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6933.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2420	2420	2420	2420	2420	
5°	2414	2410	2399	2414	2412	229
15°	2304	2305	2303	2322	2322	649
25°	2096	2100	2115	2146	2148	965
35°	1808	1821	1854	1901	1912	1130
45°	1469	1495	1552	1617	1638	1133
55°	1110	1142	1226	1307	1332	989
65°	739	789	892	979	1012	733
75°	376	438	565	656	676	399
85°	73	131	170	173	173	92
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2420.0	2420.0	2420.0	2420.0	2420.0
2.5°	2423.4	2420.0	2407.3	2422.3	2420.0
5°	2414.3	2409.6	2399.3	2414.3	2412.1
7.5°	2395.9	2393.7	2383.4	2400.5	2398.2
10°	2373.2	2370.9	2363.0	2380.0	2376.6
12.5°	2341.4	2340.3	2334.6	2355.0	2352.8
15°	2303.7	2304.8	2302.6	2322.1	2322.1
17.5°	2260.5	2259.4	2263.9	2287.8	2285.5
20°	2210.3	2211.4	2217.1	2244.6	2244.6
22.5°	2158.0	2156.9	2169.4	2196.7	2198.9
25°	2096.5	2099.9	2114.6	2145.5	2147.8
27.5°	2030.4	2036.3	2054.4	2089.7	2093.1
30°	1961.1	1967.9	1995.1	2028.1	2032.6
32.5°	1884.7	1899.5	1924.5	1966.7	1978.1
35°	1808.4	1820.9	1854.0	1900.6	1912.0
37.5°	1724.1	1744.5	1782.2	1833.4	1848.4
40°	1640.9	1661.6	1708.2	1761.8	1777.7
42.5°	1556.6	1578.4	1631.8	1692.3	1709.3
45°	1469.1	1495.3	1552.1	1617.1	1637.5
47.5°	1379.2	1409.8	1471.4	1541.9	1564.8
50°	1290.3	1321.0	1391.7	1464.4	1485.0
52.5°	1194.7	1233.3	1308.5	1387.1	1407.6
55°	1110.4	1142.2	1226.5	1307.4	1332.4
57.5°	1011.3	1054.5	1144.5	1226.5	1250.3
60°	923.6	963.4	1059.0	1142.2	1169.5
62.5°	834.8	875.7	971.3	1065.8	1091.1
65°	739.1	789.1	891.6	979.3	1012.5
67.5°	648.0	700.3	805.2	898.4	932.7
70°	558.0	611.4	725.5	821.1	848.4
72.5°	469.2	525.1	643.5	736.8	768.7
75°	375.8	438.5	564.8	656.0	676.4
77.5°	288.1	357.6	485.1	546.7	561.4
80°	206.1	282.4	387.2	431.7	443.1
82.5°	135.4	209.5	289.2	313.1	309.7
85°	72.9	130.9	169.7	173.1	173.1
87.5°	28.4	52.5	53.6	40.9	38.6
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)