

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: P881285

Luminaire Tested: **24CZ2-70VHE-UNV-B40**

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: P881285
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-UNV-B40
Description: 2X4 7000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND RIBBED LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

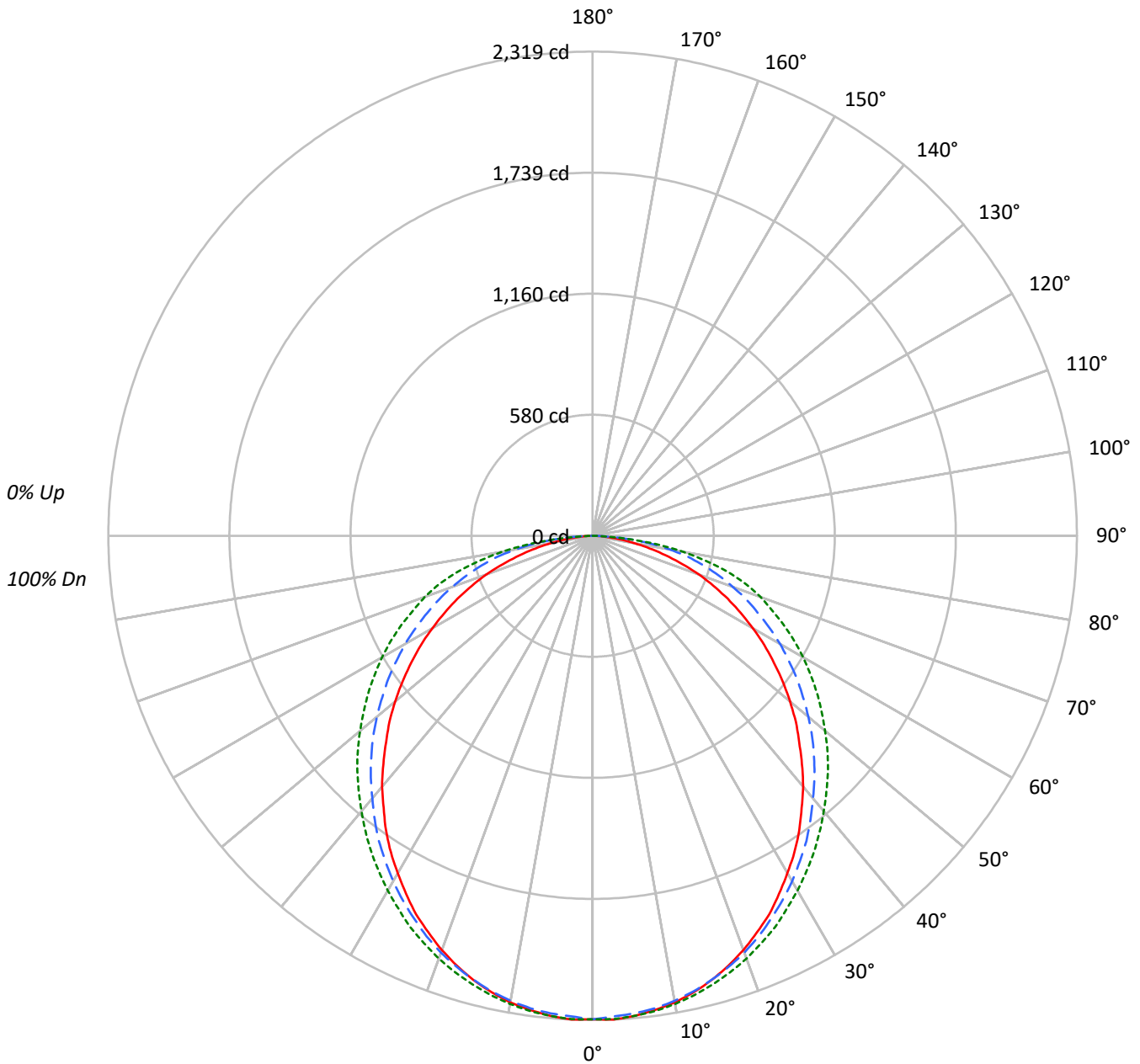
Lumens per Lamp: N/A
Luminaire Lumens: 6702.0 lumens
Efficiency: N/A
Efficacy: 119.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.36
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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°	3269	3269	3269
5°	3270	3254	3270
10°	3252	3242	3263
15°	3219	3218	3250
20°	3171	3191	3236
25°	3116	3151	3220
30°	3040	3114	3197
35°	2972	3074	3184
40°	2890	3024	3172
45°	2792	2993	3181
50°	2708	2960	3191
55°	2608	2939	3226
60°	2500	2925	3286
65°	2383	2915	3370
70°	2243	2944	3525
75°	1972	3005	3667
80°	1647	3028	3537
85°	1176	2594	2630



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.9	3.3
10°-20°	623.6	9.3
20°-30°	935.5	14.0
30°-40°	1116.9	16.7
40°-50°	1156.9	17.3
50°-60°	1065.1	15.9
60°-70°	859.1	12.8
70°-80°	561.3	8.4
80°-90°	164.6	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°	1778.0	26.5
0°-40°	2895.0	43.2
0°-60°	5117.0	76.3
0°-90°	6702.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6702.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2316	2316	2316	2316	2316	
5°	2308	2306	2296	2309	2308	219
15°	2203	2203	2202	2224	2224	621
25°	2001	2005	2024	2060	2068	920
35°	1725	1740	1784	1833	1848	1077
45°	1399	1434	1500	1567	1594	1081
55°	1060	1105	1194	1282	1311	949
65°	714	762	873	972	1009	706
75°	362	430	551	646	672	386
85°	73	126	160	170	162	90
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2315.9	2315.9	2315.9	2315.9	2315.9
2.5°	2319.2	2315.9	2304.0	2318.1	2317.0
5°	2308.3	2306.2	2296.5	2309.4	2308.3
7.5°	2291.0	2290.0	2282.4	2296.5	2296.5
10°	2269.4	2267.3	2261.9	2278.1	2277.0
12.5°	2239.2	2238.1	2234.8	2254.3	2253.2
15°	2203.3	2203.3	2202.2	2224.0	2224.0
17.5°	2160.0	2161.1	2165.4	2190.3	2191.4
20°	2111.4	2115.7	2124.4	2152.5	2154.6
22.5°	2056.0	2064.7	2076.6	2108.1	2111.4
25°	2000.9	2005.2	2023.6	2060.4	2067.9
27.5°	1933.7	1944.7	1968.5	2006.3	2013.9
30°	1865.6	1880.7	1911.0	1950.1	1962.0
32.5°	1798.3	1811.5	1847.2	1891.5	1905.6
35°	1724.8	1740.0	1784.3	1833.1	1848.3
37.5°	1643.5	1667.3	1714.0	1770.2	1786.4
40°	1568.9	1590.6	1641.4	1704.3	1721.6
42.5°	1483.3	1510.4	1572.2	1636.0	1657.6
45°	1398.8	1433.6	1499.5	1566.8	1593.8
47.5°	1319.9	1348.0	1426.0	1501.7	1525.5
50°	1233.2	1265.6	1348.0	1428.2	1453.1
52.5°	1147.8	1186.7	1269.9	1354.5	1381.5
55°	1060.0	1105.4	1194.3	1282.1	1311.2
57.5°	975.5	1021.1	1113.0	1206.2	1236.4
60°	885.8	934.4	1036.2	1126.0	1164.0
62.5°	799.1	847.7	954.9	1052.5	1088.1
65°	713.5	762.3	872.8	972.2	1009.2
67.5°	624.8	677.8	795.8	892.2	927.9
70°	543.5	594.3	713.5	816.4	854.2
72.5°	450.3	511.1	632.4	734.0	769.9
75°	361.7	429.8	551.1	646.4	672.4
77.5°	279.3	347.6	468.7	540.3	556.5
80°	202.6	271.8	372.5	422.2	435.2
82.5°	131.0	202.6	269.6	303.1	307.4
85°	72.6	125.6	160.2	169.9	162.4
87.5°	25.9	47.6	46.5	37.8	30.3
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)