

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: P881294

Luminaire Tested: **24CZ2-75VHE-S-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: P881294
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: 24CZ2-75VHE-S-UNV-B40
Description: 2X4 7500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND SMOOTH LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

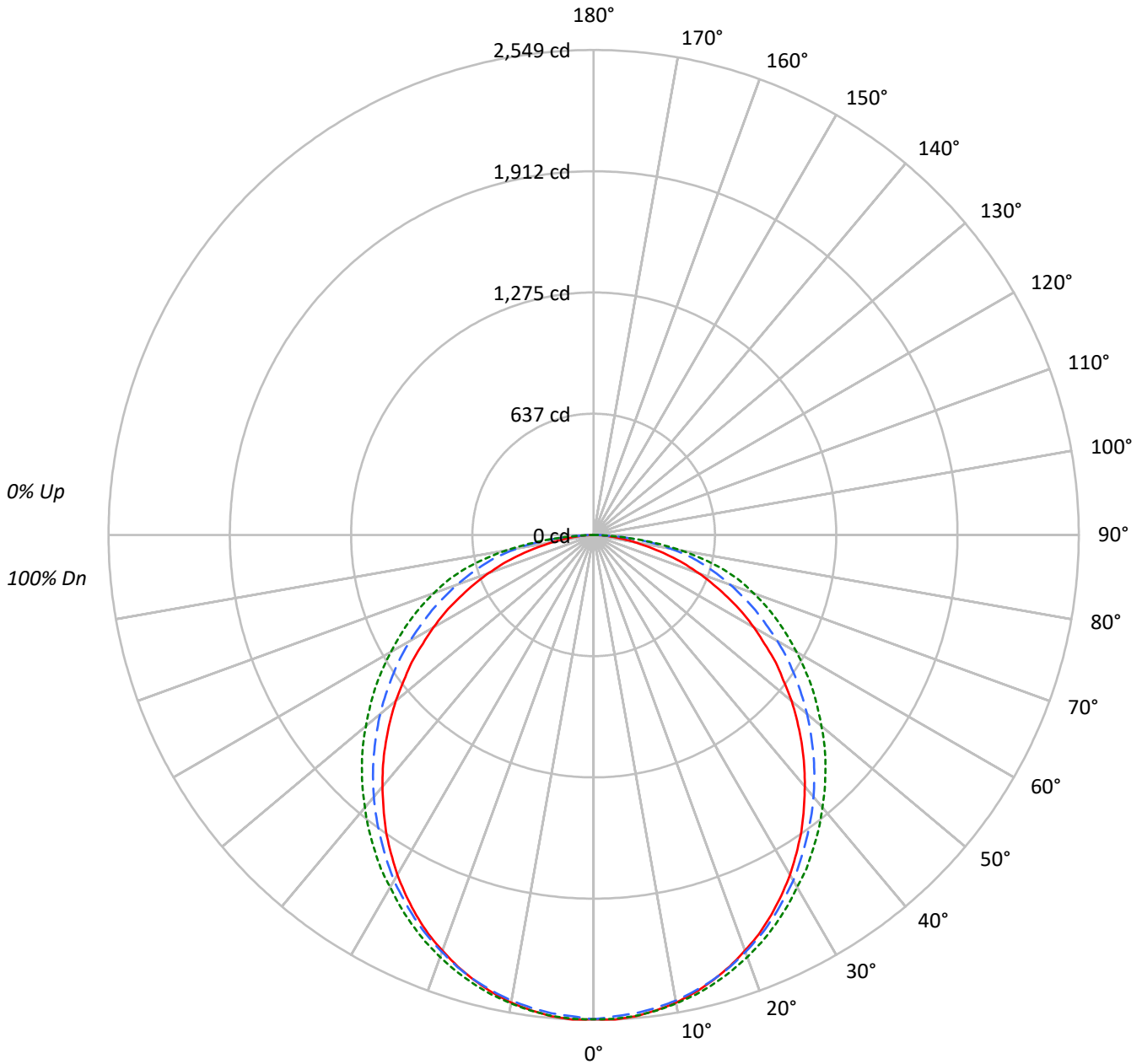
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7293.0 lumens
Efficiency: N/A
Efficacy: 121.6 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): 60
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°	3593	3593	3593
5°	3598	3576	3595
10°	3578	3562	3583
15°	3541	3539	3569
20°	3492	3503	3546
25°	3434	3464	3518
30°	3362	3420	3485
35°	3278	3360	3465
40°	3180	3311	3445
45°	3085	3259	3438
50°	2980	3214	3430
55°	2874	3175	3449
60°	2743	3144	3472
65°	2596	3132	3557
70°	2422	3149	3683
75°	2156	3240	3880
80°	1762	3310	3788
85°	1242	2891	2949



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.7	3.3
10°-20°	685.4	9.4
20°-30°	1027.5	14.1
30°-40°	1223.7	16.8
40°-50°	1261.8	17.3
50°-60°	1151.4	15.8
60°-70°	920.6	12.6
70°-80°	601.4	8.2
80°-90°	180.6	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°	1953.5	26.8
0°-40°	3177.3	43.6
0°-60°	5590.4	76.7
0°-90°	7293.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7293.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2546	2546	2546	2546	2546	
5°	2540	2535	2524	2540	2537	241
15°	2423	2424	2422	2443	2443	683
25°	2205	2209	2224	2257	2259	1015
35°	1902	1915	1950	1999	2011	1188
45°	1545	1573	1633	1701	1722	1192
55°	1168	1202	1290	1375	1402	1040
65°	778	830	938	1030	1065	771
75°	395	461	594	690	712	420
85°	77	138	178	182	182	97
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2545.7	2545.7	2545.7	2545.7	2545.7
2.5°	2549.3	2545.7	2532.3	2548.1	2545.7
5°	2539.7	2534.7	2523.9	2539.7	2537.3
7.5°	2520.3	2518.0	2507.2	2525.1	2522.7
10°	2496.4	2494.1	2485.7	2503.6	2500.0
12.5°	2463.0	2461.8	2455.8	2477.3	2474.9
15°	2423.3	2424.5	2422.1	2442.7	2442.7
17.5°	2377.9	2376.7	2381.5	2406.6	2404.2
20°	2325.1	2326.3	2332.2	2361.2	2361.2
22.5°	2270.1	2268.9	2282.1	2310.7	2313.1
25°	2205.3	2208.9	2224.5	2257.0	2259.3
27.5°	2135.8	2142.0	2161.1	2198.2	2201.7
30°	2062.9	2070.1	2098.7	2133.4	2138.2
32.5°	1982.6	1998.1	2024.4	2068.9	2080.8
35°	1902.3	1915.4	1950.3	1999.3	2011.3
37.5°	1813.6	1835.1	1874.8	1928.6	1944.3
40°	1726.1	1747.9	1796.9	1853.3	1870.0
42.5°	1637.4	1660.4	1716.6	1780.1	1798.1
45°	1545.4	1572.9	1632.7	1701.0	1722.5
47.5°	1450.8	1483.0	1547.8	1621.9	1646.1
50°	1357.3	1389.6	1463.9	1540.4	1562.2
52.5°	1256.7	1297.3	1376.5	1459.1	1480.7
55°	1168.0	1201.5	1290.2	1375.3	1401.5
57.5°	1063.8	1109.2	1203.9	1290.2	1315.3
60°	971.6	1013.4	1114.0	1201.5	1230.2
62.5°	878.1	921.1	1021.8	1121.2	1147.7
65°	777.5	830.1	937.9	1030.1	1065.0
67.5°	681.7	736.6	847.0	945.0	981.1
70°	587.0	643.2	763.2	863.8	892.5
72.5°	493.6	552.3	676.9	775.1	808.6
75°	395.3	461.3	594.2	690.0	711.5
77.5°	303.1	376.2	510.3	575.1	590.6
80°	216.8	297.1	407.3	454.1	466.1
82.5°	142.4	220.4	304.3	329.4	325.8
85°	76.7	137.7	178.5	182.1	182.1
87.5°	29.9	55.2	56.4	43.0	40.6
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)