

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: P881299

Luminaire Tested: **24CZ2-75VHE-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: P881299
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: 24CZ2-75VHE-UNV-B35
Description: 2X4 7500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND RIBBED LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

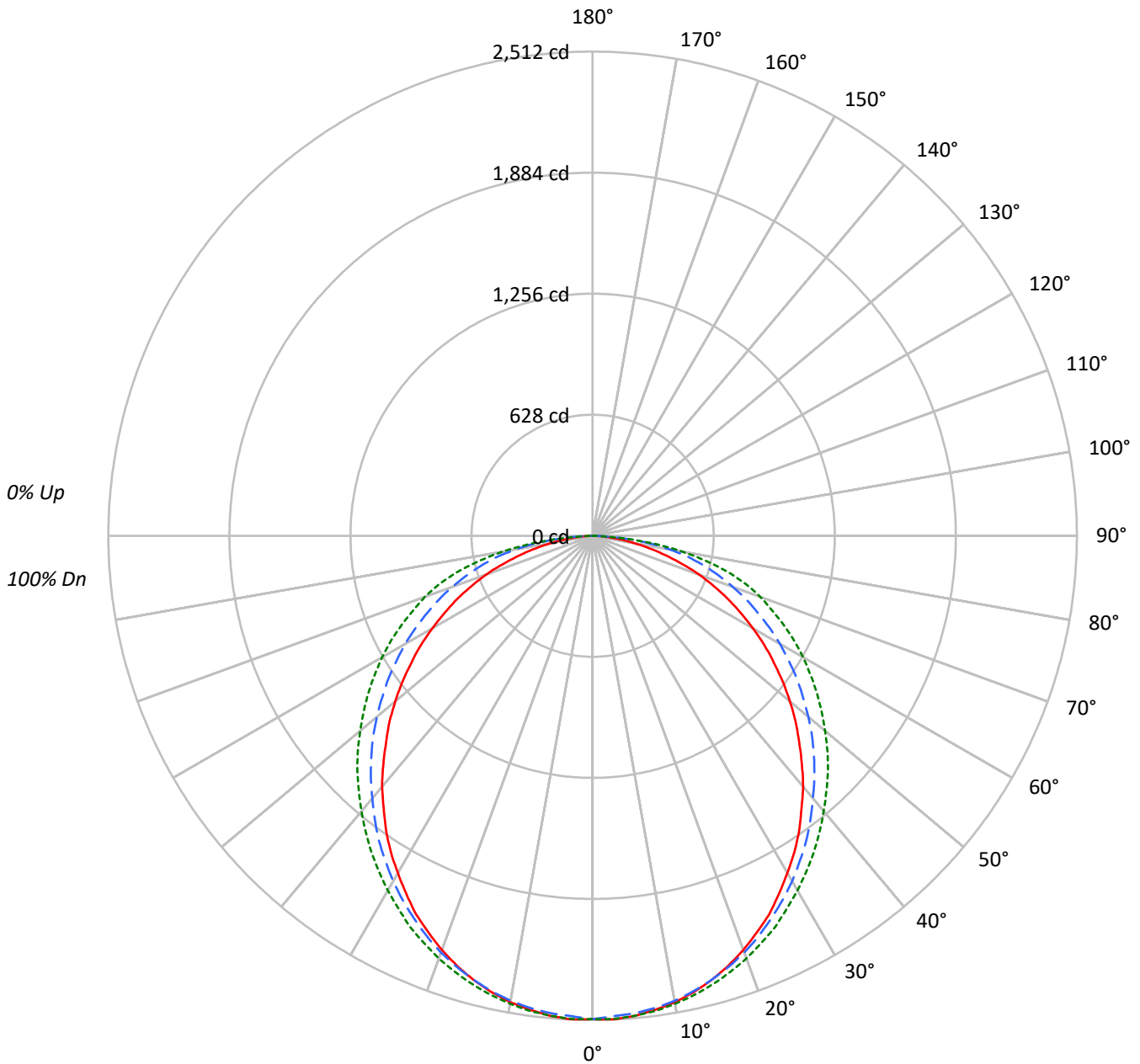
Lumens per Lamp: N/A
Luminaire Lumens: 7258.0 lumens
Efficiency: N/A
Efficacy: 121.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.36
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	3540	3540	3540
5°	3542	3523	3542
10°	3522	3510	3534
15°	3486	3485	3519
20°	3434	3455	3505
25°	3374	3413	3487
30°	3292	3373	3463
35°	3218	3329	3449
40°	3130	3275	3435
45°	3023	3241	3445
50°	2932	3205	3455
55°	2825	3183	3494
60°	2708	3168	3558
65°	2580	3157	3650
70°	2429	3188	3817
75°	2136	3254	3971
80°	1783	3279	3831
85°	1274	2810	2847



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.1	3.3
10°-20°	675.3	9.3
20°-30°	1013.1	14.0
30°-40°	1209.6	16.7
40°-50°	1252.9	17.3
50°-60°	1153.4	15.9
60°-70°	930.4	12.8
70°-80°	607.9	8.4
80°-90°	178.2	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°	1925.6	26.5
0°-40°	3135.1	43.2
0°-60°	5541.4	76.3
0°-90°	7258.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7258.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2508	2508	2508	2508	2508	
5°	2500	2498	2487	2501	2500	237
15°	2386	2386	2385	2408	2408	672
25°	2167	2172	2192	2231	2240	996
35°	1868	1884	1932	1985	2002	1167
45°	1515	1552	1624	1697	1726	1171
55°	1148	1197	1293	1388	1420	1027
65°	773	826	945	1053	1093	764
75°	392	466	597	700	728	418
85°	79	136	174	184	176	97
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2508.0	2508.0	2508.0	2508.0	2508.0
2.5°	2511.6	2508.0	2495.2	2510.4	2509.2
5°	2499.8	2497.5	2487.0	2501.0	2499.8
7.5°	2481.1	2479.9	2471.7	2487.0	2487.0
10°	2457.7	2455.4	2449.5	2467.1	2465.9
12.5°	2424.9	2423.8	2420.2	2441.3	2440.1
15°	2386.1	2386.1	2384.9	2408.5	2408.5
17.5°	2339.2	2340.4	2345.1	2372.0	2373.2
20°	2286.5	2291.2	2300.6	2331.0	2333.4
22.5°	2226.6	2236.0	2248.9	2283.0	2286.5
25°	2166.9	2171.6	2191.5	2231.3	2239.5
27.5°	2094.1	2106.0	2131.8	2172.8	2181.0
30°	2020.3	2036.7	2069.5	2111.9	2124.8
32.5°	1947.5	1961.8	2000.4	2048.4	2063.7
35°	1867.9	1884.3	1932.3	1985.2	2001.6
37.5°	1779.9	1805.6	1856.2	1917.1	1934.6
40°	1699.1	1722.5	1777.5	1845.7	1864.4
42.5°	1606.4	1635.7	1702.6	1771.7	1795.1
45°	1514.8	1552.5	1624.0	1696.8	1726.0
47.5°	1429.4	1459.8	1544.3	1626.3	1652.0
50°	1335.5	1370.6	1459.8	1546.7	1573.6
52.5°	1243.0	1285.2	1375.3	1466.8	1496.1
55°	1148.0	1197.1	1293.4	1388.4	1420.0
57.5°	1056.4	1105.8	1205.3	1306.2	1339.0
60°	959.2	1011.9	1122.2	1219.4	1260.6
62.5°	865.4	918.0	1034.2	1139.8	1178.4
65°	772.6	825.6	945.2	1052.9	1092.9
67.5°	676.6	734.0	861.8	966.3	1004.9
70°	588.6	643.6	772.6	884.1	925.1
72.5°	487.7	553.5	684.8	794.9	833.7
75°	391.7	465.5	596.8	700.1	728.2
77.5°	302.5	376.5	507.6	585.1	602.7
80°	219.4	294.3	403.4	457.3	471.3
82.5°	141.9	219.4	292.0	328.3	332.9
85°	78.7	136.0	173.5	184.0	175.8
87.5°	28.1	51.5	50.3	41.0	32.8
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)