

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: P881026

Luminaire Tested: **24CZ2-75VHE-B2750-W2D-5000K**

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: P881026
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-B2750-W2D-5000K
Description: 2X4 7500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND RIBBED LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

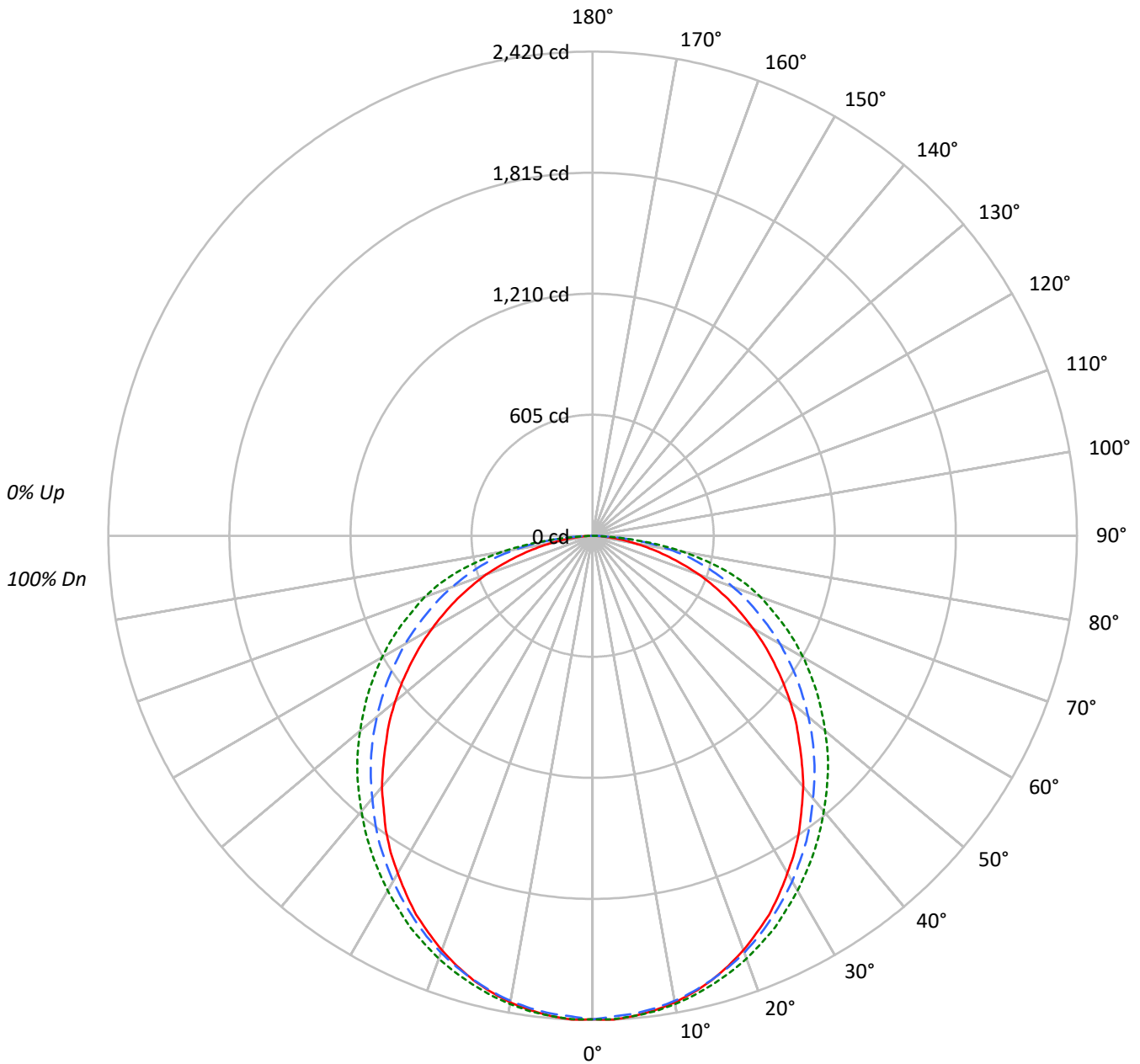
Lumens per Lamp: N/A
Luminaire Lumens: 6995.0 lumens
Efficiency: N/A
Efficacy: 116.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.36
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P881026

CATALOG NUMBER: 24CZ2-75VHE-B2750-W2D-5000K

Luminous Intensity Polar Plot





TEST NUMBER: P881026

CATALOG NUMBER: 24CZ2-75VHE-B2750-W2D-5000K

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°	3413	3396	3413
10°	3394	3383	3406
15°	3360	3358	3392
20°	3310	3330	3378
25°	3252	3289	3361
30°	3173	3250	3337
35°	3102	3209	3324
40°	3017	3156	3310
45°	2914	3124	3320
50°	2826	3089	3330
55°	2722	3067	3368
60°	2610	3053	3429
65°	2487	3042	3518
70°	2341	3073	3679
75°	2059	3137	3827
80°	1718	3160	3692
85°	1227	2708	2745



TEST NUMBER: P881026

CATALOG NUMBER: 24CZ2-75VHE-B2750-W2D-5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.5	3.3
10°-20°	650.9	9.3
20°-30°	976.4	14.0
30°-40°	1165.7	16.7
40°-50°	1207.5	17.3
50°-60°	1111.6	15.9
60°-70°	896.7	12.8
70°-80°	585.9	8.4
80°-90°	171.8	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°	1855.8	26.5
0°-40°	3021.5	43.2
0°-60°	5340.7	76.3
0°-90°	6995.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6995.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2417	2417	2417	2417	2417	
5°	2409	2407	2397	2410	2409	229
15°	2300	2300	2298	2321	2321	648
25°	2088	2093	2112	2150	2158	960
35°	1800	1816	1862	1913	1929	1125
45°	1460	1496	1565	1635	1664	1129
55°	1106	1154	1246	1338	1369	990
65°	745	796	911	1015	1053	736
75°	378	449	575	675	702	403
85°	76	131	167	177	170	94
90°	0	0	0	0	0	



TEST NUMBER: P881026

CATALOG NUMBER: 24CZ2-75VHE-B2750-W2D-5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2417.2	2417.2	2417.2	2417.2	2417.2
2.5°	2420.5	2417.2	2404.7	2419.4	2418.3
5°	2409.3	2407.0	2396.8	2410.4	2409.3
7.5°	2391.2	2390.1	2382.2	2396.8	2396.8
10°	2368.6	2366.4	2360.7	2377.7	2376.5
12.5°	2337.1	2335.9	2332.5	2352.8	2351.7
15°	2299.6	2299.6	2298.5	2321.3	2321.3
17.5°	2254.5	2255.6	2260.1	2286.1	2287.2
20°	2203.7	2208.2	2217.2	2246.6	2248.8
22.5°	2145.9	2155.0	2167.4	2200.3	2203.7
25°	2088.4	2092.9	2112.1	2150.4	2158.3
27.5°	2018.2	2029.7	2054.5	2094.0	2101.9
30°	1947.1	1962.9	1994.5	2035.4	2047.8
32.5°	1877.0	1890.7	1927.9	1974.2	1988.9
35°	1800.2	1816.0	1862.3	1913.3	1929.1
37.5°	1715.4	1740.2	1788.9	1847.6	1864.5
40°	1637.5	1660.1	1713.1	1778.8	1796.8
42.5°	1548.2	1576.4	1640.9	1707.5	1730.1
45°	1460.0	1496.3	1565.1	1635.3	1663.5
47.5°	1377.6	1406.9	1488.4	1567.4	1592.2
50°	1287.1	1321.0	1406.9	1490.6	1516.6
52.5°	1198.0	1238.6	1325.5	1413.7	1441.9
55°	1106.4	1153.7	1246.5	1338.1	1368.6
57.5°	1018.1	1065.7	1161.6	1258.9	1290.5
60°	924.5	975.3	1081.5	1175.2	1214.9
62.5°	834.0	884.8	996.7	1098.5	1135.7
65°	744.6	795.6	910.9	1014.7	1053.3
67.5°	652.1	707.4	830.6	931.3	968.5
70°	567.3	620.3	744.6	852.1	891.5
72.5°	470.0	533.4	660.0	766.1	803.5
75°	377.5	448.6	575.2	674.7	701.8
77.5°	291.5	362.8	489.2	563.9	580.8
80°	211.4	283.6	388.8	440.7	454.2
82.5°	136.7	211.4	281.4	316.4	320.9
85°	75.8	131.1	167.2	177.4	169.5
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)