

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: P732137

Luminaire Tested: **24CZ2-35-B2750-W2D-3000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732137
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P272125)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-35-B2750-W2D-3000K
Description: 2X4 3500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND RIBBED LENS

Light Source: -
Ballast/Driver: -

Summary

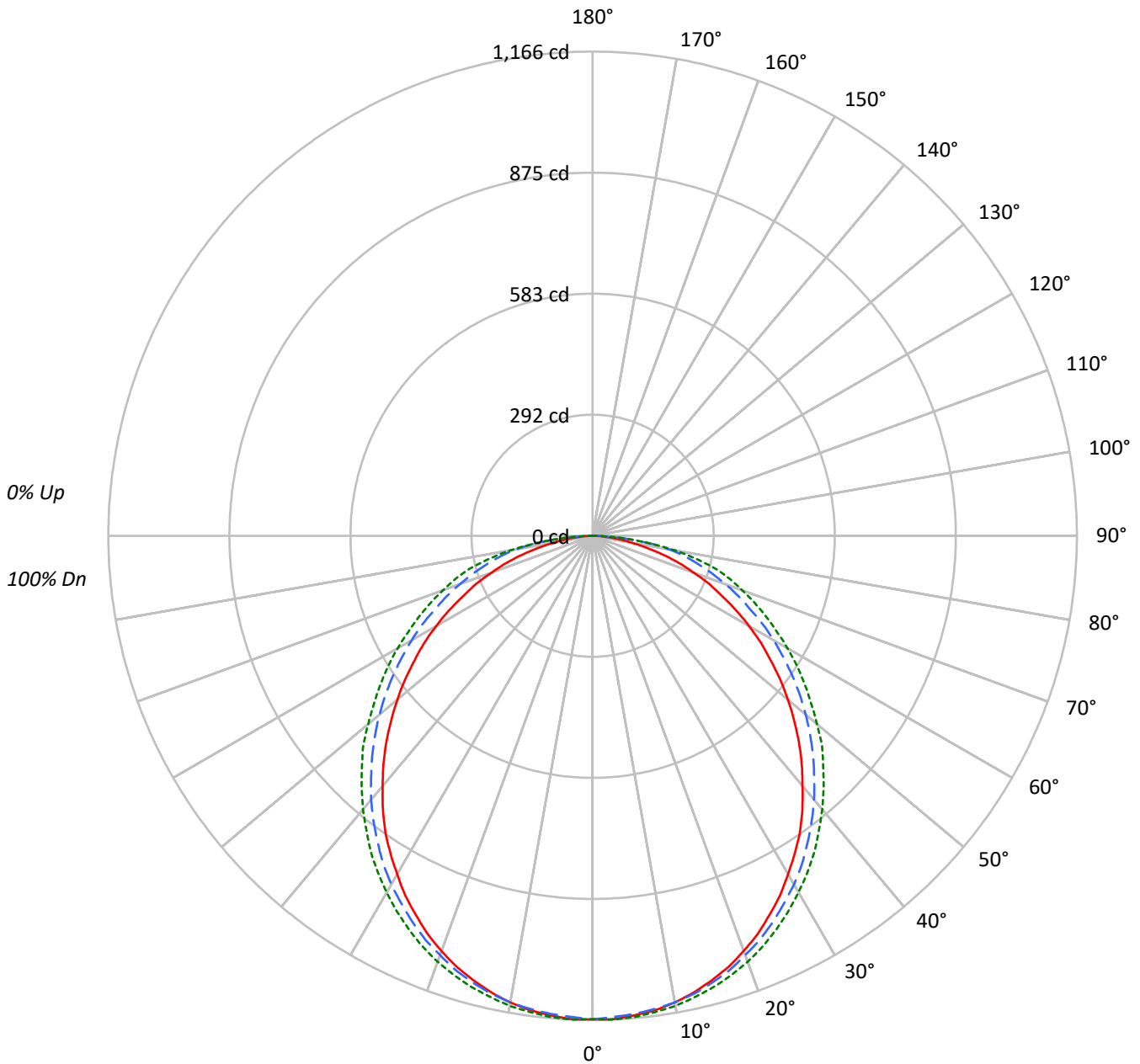
Lumens per Lamp: N/A
Luminaire Lumens: 3314.0 lumens
Efficiency: N/A
Efficacy: 118.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 28
Input Voltage (V): NR
Input Current (A_{in}): 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	106	101	97	93	97	93	90	93	90	88	89	87	85	83								
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69								
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58								
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49								
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42								
6	70	56	47	40	68	55	47	40	53	46	40	52	45	40	50	44	39	37								
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33								
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29								
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26								
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1643	1643	1643
5°	1642	1637	1648
10°	1635	1635	1647
15°	1620	1627	1644
20°	1598	1614	1639
25°	1569	1598	1629
30°	1534	1580	1616
35°	1500	1554	1603
40°	1449	1528	1584
45°	1401	1498	1567
50°	1347	1470	1549
55°	1287	1443	1533
60°	1227	1420	1530
65°	1149	1396	1540
70°	1064	1403	1581
75°	953	1430	1670
80°	770	1514	1634
85°	580	1329	1295



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.2	3.3
10°-20°	314.9	9.5
20°-30°	473.4	14.3
30°-40°	563.9	17.0
40°-50°	577.1	17.4
50°-60°	519.6	15.7
60°-70°	408.1	12.3
70°-80°	264.8	8.0
80°-90°	81.9	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°	898.6	27.1
0°-40°	1462.5	44.1
0°-60°	2559.2	77.2
0°-90°	3314.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3314.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1164	1164	1164	1164	1164	
5°	1159	1161	1156	1162	1163	110
15°	1108	1112	1114	1123	1125	313
25°	1007	1016	1026	1043	1046	464
35°	870	881	902	924	930	543
45°	702	719	751	779	785	541
55°	523	546	586	617	623	469
65°	344	371	418	453	461	343
75°	175	208	262	298	306	185
85°	36	66	82	80	80	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1164.3	1164.3	1164.3	1164.3	<i>1164.3</i>
2.5°	<i>1165.3</i>	<i>1165.3</i>	<i>1160.0</i>	<i>1165.3</i>	<i>1166.3</i>
5°	1159.0	1161.1	1155.8	1162.1	<i>1163.1</i>
7.5°	1152.6	1152.6	1149.4	1155.8	<i>1156.9</i>
10°	1141.1	1142.1	1141.1	1148.4	<i>1149.4</i>
12.5°	1126.4	1128.4	1129.5	1136.9	<i>1137.9</i>
15°	1108.5	1111.7	1113.7	1123.2	<i>1125.3</i>
17.5°	1088.4	1091.6	1096.8	1107.3	<i>1109.5</i>
20°	1064.2	1068.4	1074.7	1088.4	<i>1091.6</i>
22.5°	1038.0	1042.1	1052.7	1065.2	<i>1070.6</i>
25°	1007.4	1015.8	1026.3	1043.2	<i>1046.3</i>
27.5°	976.8	984.2	997.9	1015.8	<i>1020.1</i>
30°	941.1	952.6	969.5	987.4	<i>991.5</i>
32.5°	906.3	917.9	937.9	956.9	<i>962.1</i>
35°	870.5	881.1	902.1	924.2	<i>930.5</i>
37.5°	829.5	843.2	866.4	888.4	<i>894.8</i>
40°	786.3	803.2	829.5	852.7	<i>860.0</i>
42.5°	745.2	763.1	789.5	814.7	<i>823.1</i>
45°	702.1	719.0	750.6	779.0	<i>785.3</i>
47.5°	657.9	676.9	710.5	738.9	<i>749.4</i>
50°	613.7	633.8	669.5	699.0	<i>705.3</i>
52.5°	569.5	590.5	628.4	660.0	<i>663.2</i>
55°	523.2	546.4	586.3	616.9	<i>623.2</i>
57.5°	481.1	501.1	544.2	575.8	<i>583.2</i>
60°	434.8	456.8	503.1	532.7	<i>542.1</i>
62.5°	390.5	413.7	462.2	491.6	<i>500.0</i>
65°	344.2	370.6	417.9	452.7	<i>461.0</i>
67.5°	304.3	329.5	380.0	413.7	<i>422.1</i>
70°	257.8	286.4	340.0	374.8	<i>383.1</i>
72.5°	217.9	247.3	301.1	334.7	<i>347.4</i>
75°	174.8	208.4	262.2	297.9	<i>306.3</i>
77.5°	132.7	171.6	226.3	253.7	<i>253.7</i>
80°	94.7	135.8	186.3	199.0	<i>201.0</i>
82.5°	62.1	102.1	137.9	136.8	<i>136.8</i>
85°	35.8	66.3	82.1	80.0	<i>80.0</i>
87.5°	13.7	27.4	29.4	29.4	<i>28.4</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>



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— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)