

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: P732138

Luminaire Tested: **24CZ2-35-B2750-W2D-3500K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732138
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-3500K
Description: 2X4 3500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND RIBBED LENS

Light Source: -
Ballast/Driver: -

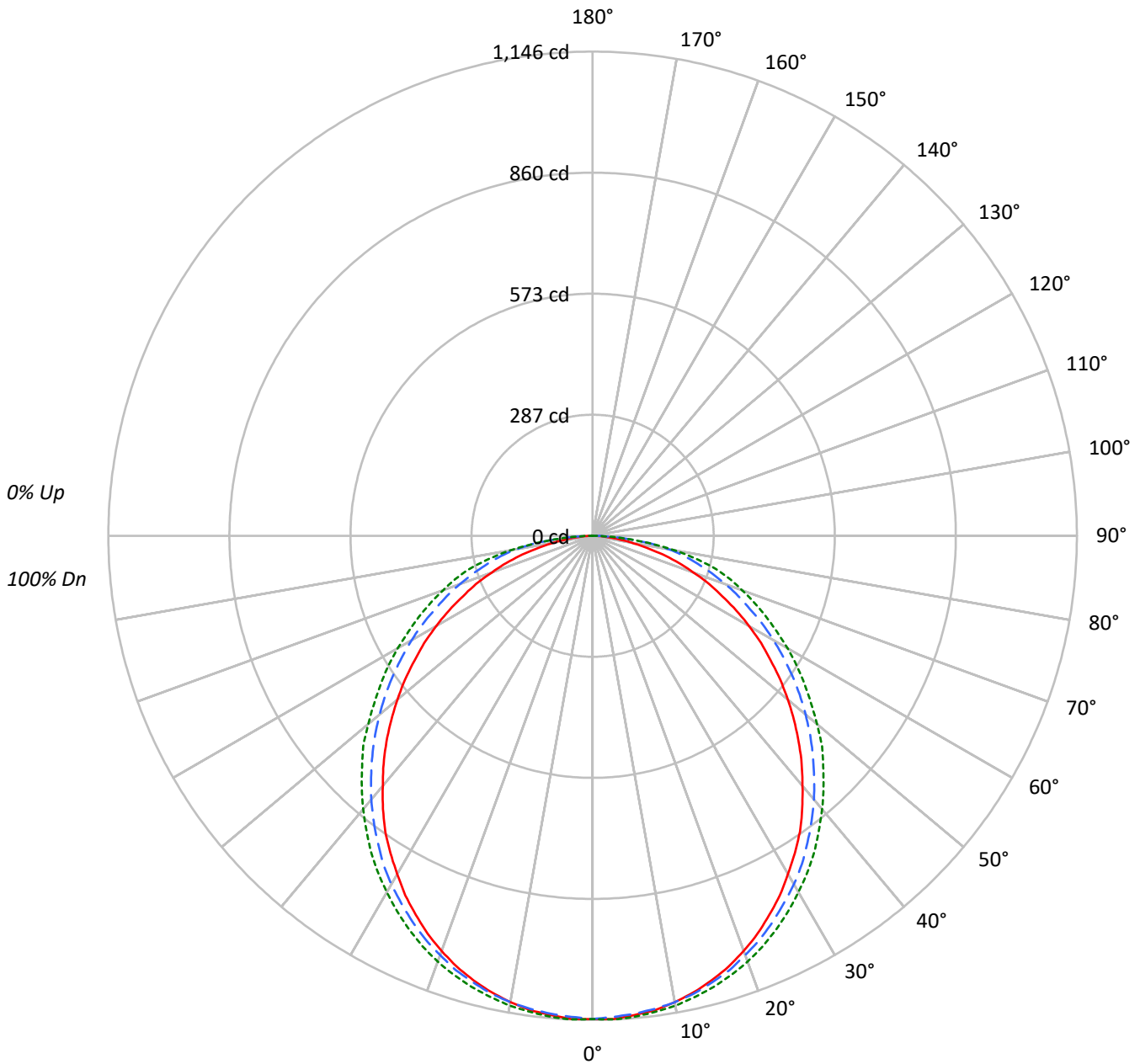
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3256.0 lumens
Efficiency: N/A
Efficacy: 116.3 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°	1614	1614	1614
5°	1613	1609	1619
10°	1607	1607	1618
15°	1591	1599	1616
20°	1570	1586	1611
25°	1541	1570	1601
30°	1507	1552	1588
35°	1474	1527	1575
40°	1423	1501	1557
45°	1377	1472	1540
50°	1324	1444	1521
55°	1265	1418	1507
60°	1206	1395	1503
65°	1129	1371	1513
70°	1045	1379	1553
75°	936	1405	1641
80°	757	1488	1605
85°	568	1305	1273



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.3	3.3
10°-20°	309.4	9.5
20°-30°	465.1	14.3
30°-40°	554.0	17.0
40°-50°	567.0	17.4
50°-60°	510.5	15.7
60°-70°	400.9	12.3
70°-80°	260.2	8.0
80°-90°	80.5	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°	882.8	27.1
0°-40°	1436.9	44.1
0°-60°	2514.4	77.2
0°-90°	3256.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3256.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1144	1144	1144	1144	1144	
5°	1139	1141	1136	1142	1143	108
15°	1089	1092	1094	1104	1106	307
25°	990	998	1008	1025	1028	456
35°	855	866	886	908	914	534
45°	690	706	737	765	772	532
55°	514	537	576	606	612	461
65°	338	364	411	445	453	337
75°	172	205	258	293	301	182
85°	35	65	81	79	79	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1143.9	1143.9	1143.9	1143.9	<i>1143.9</i>
2.5°	<i>1144.9</i>	<i>1144.9</i>	<i>1139.7</i>	<i>1144.9</i>	<i>1145.9</i>
5°	1138.7	1140.8	1135.6	1141.8	<i>1142.8</i>
7.5°	1132.4	1132.4	1129.3	1135.6	<i>1136.7</i>
10°	1121.1	1122.1	1121.1	1128.3	<i>1129.3</i>
12.5°	1106.6	1108.6	1109.8	1117.0	<i>1118.0</i>
15°	1089.1	1092.2	1094.2	1103.5	<i>1105.7</i>
17.5°	1069.4	1072.5	1077.6	1088.0	<i>1090.1</i>
20°	1045.6	1049.7	1055.9	1069.4	<i>1072.5</i>
22.5°	1019.8	1023.9	1034.3	1046.6	<i>1051.8</i>
25°	989.8	998.0	1008.3	1024.9	<i>1028.0</i>
27.5°	959.7	967.0	980.4	998.0	<i>1002.2</i>
30°	924.6	935.9	952.5	970.1	<i>974.2</i>
32.5°	890.5	901.8	921.5	940.2	<i>945.3</i>
35°	855.3	865.7	886.3	908.0	<i>914.3</i>
37.5°	814.9	828.4	851.2	872.9	<i>879.1</i>
40°	772.6	789.1	814.9	837.7	<i>845.0</i>
42.5°	732.2	749.8	775.7	800.5	<i>808.7</i>
45°	689.8	706.4	737.4	765.3	<i>771.6</i>
47.5°	646.3	665.0	698.1	726.0	<i>736.3</i>
50°	603.0	622.7	657.8	686.7	<i>692.9</i>
52.5°	559.5	580.2	617.4	648.5	<i>651.6</i>
55°	514.0	536.8	576.1	606.1	<i>612.3</i>
57.5°	472.6	492.3	534.7	565.7	<i>573.0</i>
60°	427.2	448.8	494.3	523.4	<i>532.6</i>
62.5°	383.7	406.5	454.1	483.0	<i>491.2</i>
65°	338.2	364.1	410.6	444.7	<i>453.0</i>
67.5°	298.9	323.7	373.3	406.5	<i>414.7</i>
70°	253.3	281.4	334.1	368.2	<i>376.4</i>
72.5°	214.1	243.0	295.8	328.8	<i>341.3</i>
75°	171.7	204.7	257.6	292.7	<i>300.9</i>
77.5°	130.3	168.6	222.3	249.2	<i>249.2</i>
80°	93.1	133.5	183.1	195.5	<i>197.5</i>
82.5°	61.1	100.3	135.4	134.5	<i>134.5</i>
85°	35.1	65.2	80.6	78.6	<i>78.6</i>
87.5°	13.5	26.9	28.9	28.9	<i>27.9</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)