

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: P843038

Luminaire Tested: **24CZ2-35HE-UNV-B40**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P843038
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: 24CZ2-35HE-UNV-B40
Description: 2X4 3500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND RIBBED LENS

Light Source: -
Ballast/Driver: -

Summary

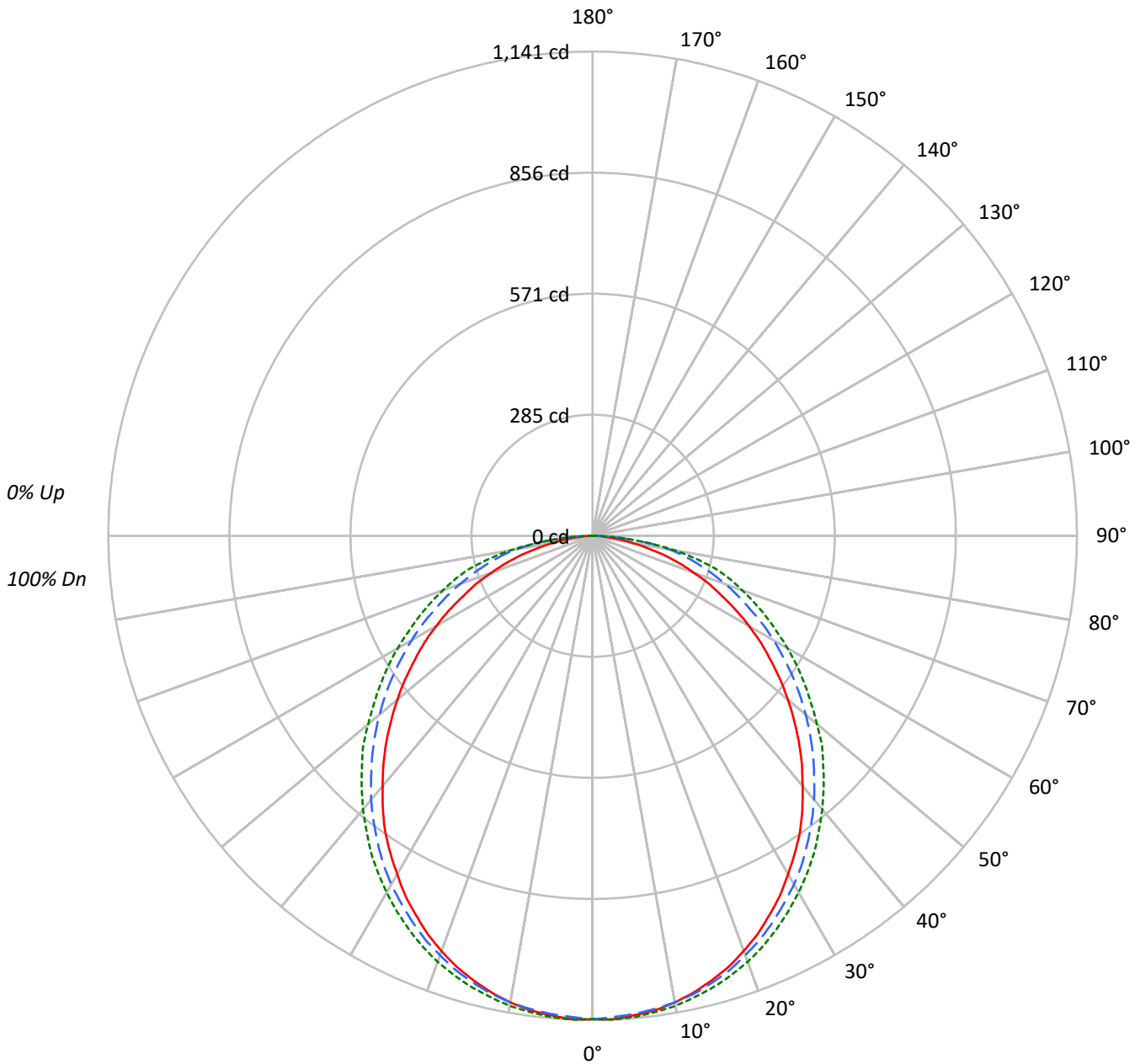
Lumens per Lamp: N/A
Luminaire Lumens: 3243.0 lumens
Efficiency: N/A
Efficacy: 124.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 26
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									
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	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°	1608	1608	1608
5°	1607	1602	1613
10°	1600	1600	1612
15°	1585	1592	1609
20°	1564	1580	1604
25°	1535	1564	1594
30°	1501	1546	1581
35°	1468	1521	1569
40°	1418	1495	1551
45°	1371	1466	1534
50°	1319	1439	1515
55°	1260	1412	1501
60°	1201	1390	1497
65°	1125	1366	1506
70°	1041	1373	1547
75°	932	1399	1634
80°	753	1482	1599
85°	567	1300	1268



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.9	3.3
10°-20°	308.2	9.5
20°-30°	463.3	14.3
30°-40°	551.8	17.0
40°-50°	564.8	17.4
50°-60°	508.5	15.7
60°-70°	399.3	12.3
70°-80°	259.1	8.0
80°-90°	80.1	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°	879.3	27.1
0°-40°	1431.1	44.1
0°-60°	2504.4	77.2
0°-90°	3243.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3243.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1139	1139	1139	1139	1139	
5°	1134	1136	1131	1137	1138	108
15°	1085	1088	1090	1099	1101	306
25°	986	994	1004	1021	1024	454
35°	852	862	883	904	911	531
45°	687	704	734	762	768	530
55°	512	535	574	604	610	459
65°	337	363	409	443	451	335
75°	171	204	256	292	300	181
85°	35	65	80	78	78	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1139.3	1139.3	1139.3	1139.3	<i>1139.3</i>
2.5°	<i>1140.3</i>	<i>1140.3</i>	<i>1135.1</i>	<i>1140.3</i>	<i>1141.3</i>
5°	1134.1	1136.2	1131.0	1137.2	<i>1138.2</i>
7.5°	1127.9	1127.9	1124.8	1131.0	<i>1132.1</i>
10°	1116.6	1117.6	1116.6	1123.8	<i>1124.8</i>
12.5°	1102.2	1104.2	1105.3	1112.5	<i>1113.5</i>
15°	1084.7	1087.8	1089.8	1099.1	<i>1101.2</i>
17.5°	1065.1	1068.2	1073.3	1083.6	<i>1085.7</i>
20°	1041.4	1045.5	1051.7	1065.1	<i>1068.2</i>
22.5°	1015.7	1019.8	1030.1	1042.4	<i>1047.6</i>
25°	985.8	994.0	1004.3	1020.8	<i>1023.9</i>
27.5°	955.9	963.1	976.5	994.0	<i>998.2</i>
30°	920.9	932.2	948.7	966.2	<i>970.3</i>
32.5°	886.9	898.2	917.8	936.4	<i>941.5</i>
35°	851.9	862.2	882.8	904.4	<i>910.6</i>
37.5°	811.7	825.1	847.8	869.4	<i>875.6</i>
40°	769.5	786.0	811.7	834.4	<i>841.6</i>
42.5°	729.3	746.8	772.6	797.3	<i>805.5</i>
45°	687.1	703.6	734.5	762.3	<i>768.5</i>
47.5°	643.8	662.4	695.3	723.1	<i>733.4</i>
50°	600.6	620.2	655.2	684.0	<i>690.2</i>
52.5°	557.3	577.9	615.0	645.9	<i>649.0</i>
55°	512.0	534.7	573.8	603.7	<i>609.9</i>
57.5°	470.8	490.4	532.6	563.5	<i>570.7</i>
60°	425.5	447.0	492.3	521.3	<i>530.5</i>
62.5°	382.1	404.9	452.3	481.1	<i>489.2</i>
65°	336.8	362.7	408.9	443.0	<i>451.1</i>
67.5°	297.7	322.4	371.8	404.9	<i>413.0</i>
70°	252.3	280.2	332.7	366.7	<i>374.9</i>
72.5°	213.2	242.0	294.6	327.5	<i>339.9</i>
75°	171.0	203.9	256.5	291.5	<i>299.7</i>
77.5°	129.8	167.9	221.4	248.2	<i>248.2</i>
80°	92.7	132.9	182.3	194.7	<i>196.7</i>
82.5°	60.8	99.9	134.9	133.9	<i>133.9</i>
85°	35.0	64.9	80.3	78.3	<i>78.3</i>
87.5°	13.4	26.8	28.8	28.8	<i>27.8</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)