

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: P843032

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

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P843032
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-S-UNV-B40
Description: 2X4 3500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND SMOOTH LENS

Light Source: -
Ballast/Driver: -

Summary

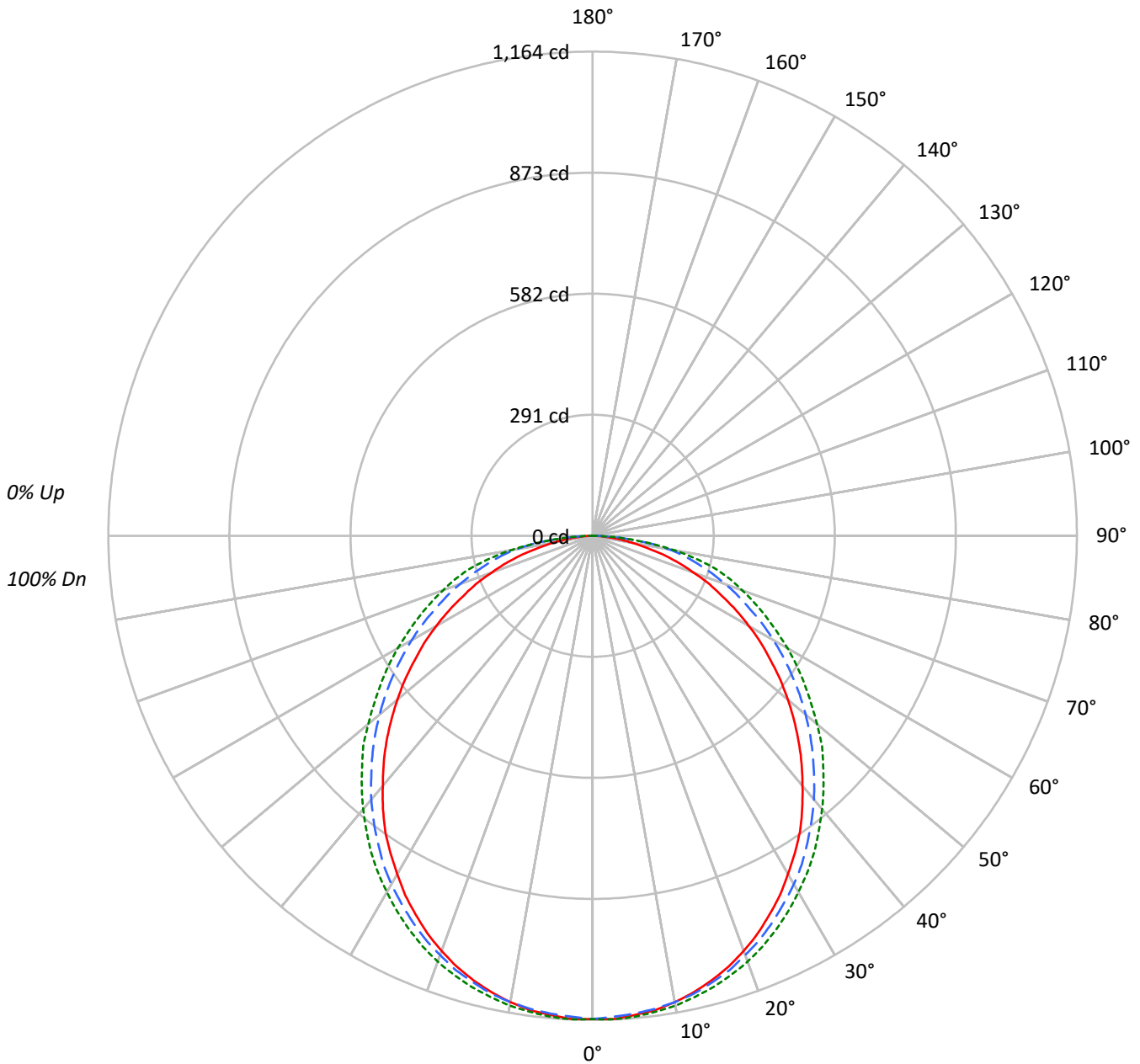
Lumens per Lamp: N/A
Luminaire Lumens: 3307.0 lumens
Efficiency: N/A
Efficacy: 127.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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°	1640	1640	1640
5°	1638	1634	1644
10°	1632	1632	1644
15°	1616	1624	1641
20°	1595	1611	1636
25°	1565	1595	1626
30°	1530	1577	1612
35°	1497	1551	1600
40°	1446	1525	1581
45°	1398	1495	1564
50°	1345	1467	1545
55°	1285	1440	1530
60°	1224	1417	1527
65°	1147	1393	1536
70°	1062	1400	1578
75°	951	1427	1666
80°	768	1511	1630
85°	578	1326	1294



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.0	3.3
10°-20°	314.3	9.5
20°-30°	472.4	14.3
30°-40°	562.7	17.0
40°-50°	575.9	17.4
50°-60°	518.5	15.7
60°-70°	407.2	12.3
70°-80°	264.3	8.0
80°-90°	81.7	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°	896.7	27.1
0°-40°	1459.4	44.1
0°-60°	2553.8	77.2
0°-90°	3307.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3307.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1162	1162	1162	1162	1162	
5°	1156	1159	1153	1160	1161	110
15°	1106	1109	1111	1121	1123	312
25°	1005	1014	1024	1041	1044	463
35°	869	879	900	922	929	542
45°	701	718	749	777	784	540
55°	522	545	585	616	622	468
65°	344	370	417	452	460	342
75°	174	208	262	297	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°	1161.8	1161.8	1161.8	1161.8	<i>1161.8</i>
2.5°	<i>1162.8</i>	<i>1162.8</i>	<i>1157.5</i>	<i>1162.8</i>	<i>1163.8</i>
5°	1156.5	1158.7	1153.3	1159.7	<i>1160.7</i>
7.5°	1150.2	1150.2	1147.0	1153.3	<i>1154.5</i>
10°	1138.7	1139.7	1138.7	1146.0	<i>1147.0</i>
12.5°	1124.0	1126.0	1127.1	1134.5	<i>1135.5</i>
15°	1106.1	1109.3	1111.3	1120.8	<i>1123.0</i>
17.5°	1086.1	1089.3	1094.5	1105.0	<i>1107.2</i>
20°	1062.0	1066.1	1072.5	1086.1	<i>1089.3</i>
22.5°	1035.8	1039.9	1050.5	1063.0	<i>1068.3</i>
25°	1005.3	1013.6	1024.1	1041.0	<i>1044.1</i>
27.5°	974.8	982.1	995.8	1013.6	<i>1017.9</i>
30°	939.1	950.6	967.4	985.3	<i>989.4</i>
32.5°	904.4	915.9	935.9	954.9	<i>960.1</i>
35°	868.7	879.2	900.2	922.2	<i>928.6</i>
37.5°	827.7	841.4	864.5	886.6	<i>892.9</i>
40°	784.7	801.5	827.7	850.9	<i>858.2</i>
42.5°	743.7	761.5	787.8	813.0	<i>821.4</i>
45°	700.6	717.5	749.0	777.3	<i>783.7</i>
47.5°	656.5	675.5	709.0	737.3	<i>747.8</i>
50°	612.4	632.4	668.1	697.5	<i>703.8</i>
52.5°	568.3	589.3	627.1	658.6	<i>661.8</i>
55°	522.1	545.2	585.1	615.6	<i>621.9</i>
57.5°	480.0	500.0	543.1	574.6	<i>581.9</i>
60°	433.8	455.9	502.1	531.6	<i>540.9</i>
62.5°	389.7	412.8	461.2	490.5	<i>498.9</i>
65°	343.5	369.8	417.0	451.7	<i>460.0</i>
67.5°	303.6	328.8	379.2	412.8	<i>421.2</i>
70°	257.3	285.8	339.3	374.0	<i>382.3</i>
72.5°	217.4	246.8	300.5	334.0	<i>346.6</i>
75°	174.4	207.9	261.6	297.3	<i>305.6</i>
77.5°	132.4	171.2	225.8	253.1	<i>253.1</i>
80°	94.5	135.5	185.9	198.6	<i>200.6</i>
82.5°	62.0	101.9	137.6	136.6	<i>136.6</i>
85°	35.7	66.2	81.9	79.9	<i>79.9</i>
87.5°	13.7	27.3	29.4	29.4	<i>28.3</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>



Report Generated By 670246072 / DESKTOP-50001EG





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







(END OF REPORT)