

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: P843037

Luminaire Tested: **24CZ2-35HE-UNV-B35**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P843037
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-B35
Description: 2X4 3500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND RIBBED LENS

Light Source: -
Ballast/Driver: -

Summary

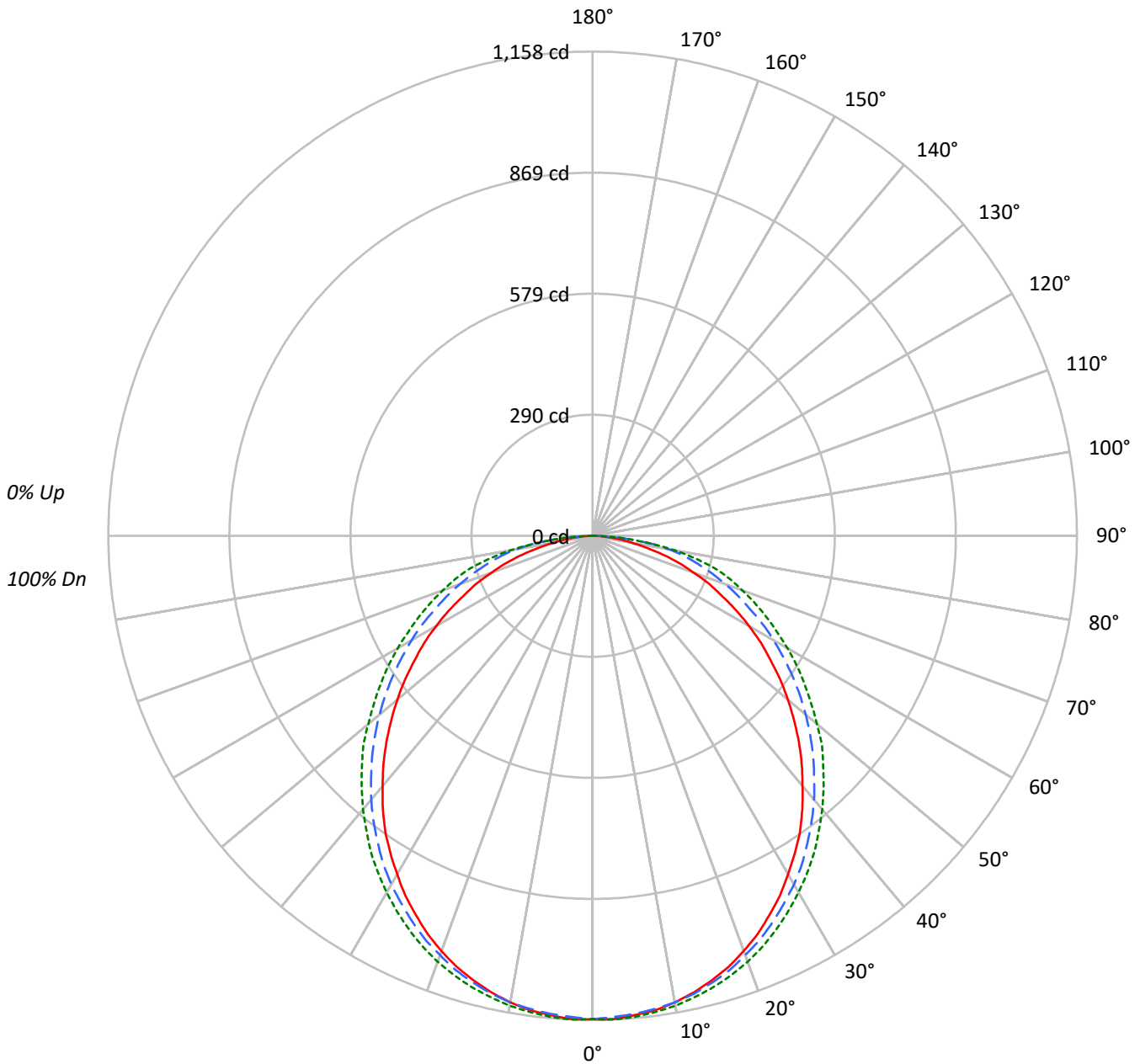
Lumens per Lamp: N/A
Luminaire Lumens: 3291.0 lumens
Efficiency: N/A
Efficacy: 126.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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				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°	1632	1632	1632
5°	1631	1626	1636
10°	1624	1624	1636
15°	1608	1616	1633
20°	1587	1603	1628
25°	1558	1587	1618
30°	1523	1569	1605
35°	1489	1544	1592
40°	1439	1518	1574
45°	1392	1488	1557
50°	1338	1460	1538
55°	1278	1433	1523
60°	1219	1410	1519
65°	1141	1386	1529
70°	1057	1394	1570
75°	947	1419	1659
80°	765	1504	1622
85°	575	1320	1287



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.5	3.3
10°-20°	312.7	9.5
20°-30°	470.1	14.3
30°-40°	560.0	17.0
40°-50°	573.1	17.4
50°-60°	516.0	15.7
60°-70°	405.2	12.3
70°-80°	263.0	8.0
80°-90°	81.3	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°	892.3	27.1
0°-40°	1452.3	44.1
0°-60°	2541.5	77.2
0°-90°	3291.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3291.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1156	1156	1156	1156	1156	
5°	1151	1153	1148	1154	1155	109
15°	1101	1104	1106	1115	1118	310
25°	1000	1009	1019	1036	1039	461
35°	864	875	896	918	924	539
45°	697	714	745	774	780	538
55°	520	543	582	613	619	466
65°	342	368	415	450	458	340
75°	174	207	260	296	304	184
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°	1156.2	1156.2	1156.2	1156.2	<i>1156.2</i>
2.5°	<i>1157.2</i>	<i>1157.2</i>	<i>1151.9</i>	<i>1157.2</i>	<i>1158.2</i>
5°	1150.9	1153.1	1147.8	1154.1	<i>1155.1</i>
7.5°	1144.6	1144.6	1141.5	1147.8	<i>1148.9</i>
10°	1133.2	1134.2	1133.2	1140.5	<i>1141.5</i>
12.5°	1118.5	1120.6	1121.7	1129.0	<i>1130.0</i>
15°	1100.8	1103.9	1106.0	1115.4	<i>1117.5</i>
17.5°	1080.9	1084.0	1089.2	1099.7	<i>1101.8</i>
20°	1056.8	1061.0	1067.3	1080.9	<i>1084.0</i>
22.5°	1030.8	1034.9	1045.4	1057.8	<i>1063.1</i>
25°	1000.4	1008.7	1019.2	1035.9	<i>1039.1</i>
27.5°	970.1	977.4	991.0	1008.7	<i>1013.0</i>
30°	934.5	946.0	962.7	980.5	<i>984.7</i>
32.5°	900.0	911.5	931.4	950.3	<i>955.4</i>
35°	864.5	875.0	895.9	917.8	<i>924.1</i>
37.5°	823.7	837.3	860.4	882.3	<i>888.6</i>
40°	780.9	797.6	823.7	846.7	<i>854.1</i>
42.5°	740.1	757.8	784.0	809.1	<i>817.4</i>
45°	697.2	714.0	745.4	773.6	<i>779.9</i>
47.5°	653.3	672.2	705.6	733.8	<i>744.2</i>
50°	609.5	629.4	664.9	694.1	<i>700.4</i>
52.5°	565.5	586.4	624.1	655.4	<i>658.6</i>
55°	519.5	542.6	582.3	612.6	<i>618.9</i>
57.5°	477.7	497.6	540.4	571.8	<i>579.1</i>
60°	431.8	453.7	499.6	529.0	<i>538.3</i>
62.5°	387.8	410.8	459.0	488.2	<i>496.5</i>
65°	341.8	368.0	415.0	449.5	<i>457.8</i>
67.5°	302.1	327.2	377.3	410.8	<i>419.2</i>
70°	256.1	284.4	337.7	372.2	<i>380.5</i>
72.5°	216.4	245.6	299.0	332.4	<i>345.0</i>
75°	173.6	206.9	260.3	295.9	<i>304.2</i>
77.5°	131.7	170.4	224.7	251.9	<i>251.9</i>
80°	94.1	134.9	185.0	197.6	<i>199.6</i>
82.5°	61.7	101.4	136.9	135.9	<i>135.9</i>
85°	35.5	65.9	81.5	79.5	<i>79.5</i>
87.5°	13.6	27.2	29.2	29.2	<i>28.2</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)