

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: P843103

Luminaire Tested: **24CZ2-50-RDP-UNV-B35**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P843103
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P274775)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-50-RDP-UNV-B35
Description: 2X4 5000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND RDP LENS

Light Source: -
Ballast/Driver: -

Summary

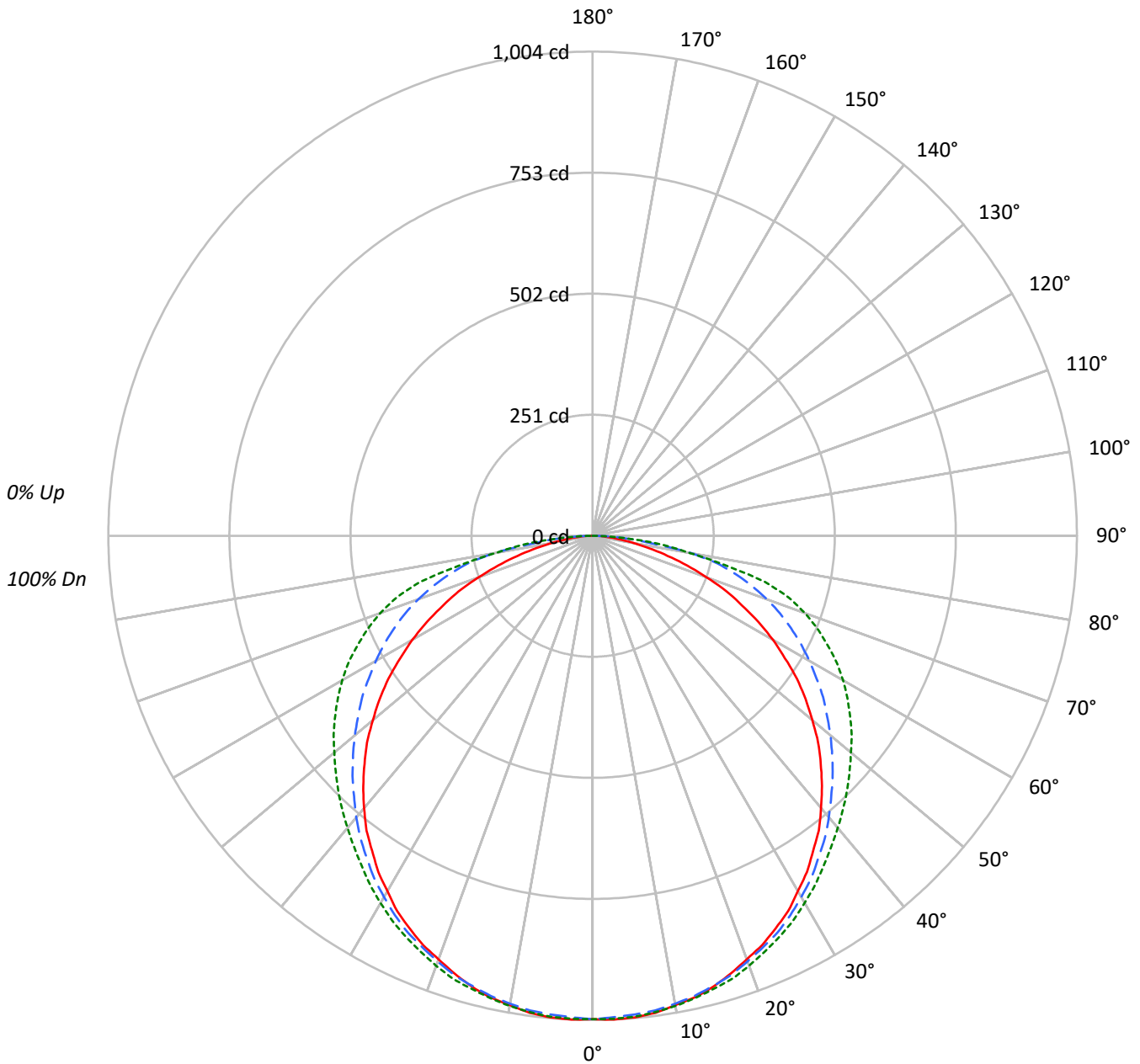
Lumens per Lamp: N/A
Luminaire Lumens: 3188.0 lumens
Efficiency: N/A
Efficacy: 79.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 40
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	98	94	105	100	96	92	96	93	89	92	89	87	88	86	84	82																			
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67																			
3	88	77	68	62	86	76	67	61	72	66	60	70	64	59	67	62	58	56																			
4	81	68	59	52	78	67	58	51	64	57	51	62	55	50	59	54	49	47																			
5	74	60	51	44	72	59	51	44	57	49	43	55	48	43	53	47	42	40																			
6	68	54	45	38	66	53	45	38	51	44	38	50	43	37	48	42	37	35																			
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31																			
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29	27																			
9	55	41	33	27	53	40	32	27	39	32	27	38	31	26	37	31	26	24																			
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1415	1415	1415
5°	1420	1411	1418
10°	1416	1412	1419
15°	1414	1412	1421
20°	1404	1411	1425
25°	1399	1413	1428
30°	1387	1410	1433
35°	1373	1406	1438
40°	1358	1404	1457
45°	1335	1405	1490
50°	1305	1413	1535
55°	1272	1436	1603
60°	1219	1464	1692
65°	1140	1515	1796
70°	1038	1585	1932
75°	880	1673	2018
80°	694	1683	1632
85°	513	1281	1433



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.1	3.0
10°-20°	273.7	8.6
20°-30°	418.5	13.1
30°-40°	511.7	16.0
40°-50°	545.3	17.1
50°-60°	521.4	16.4
60°-70°	441.7	13.9
70°-80°	296.8	9.3
80°-90°	83.7	2.6
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°	787.3	24.7
0°-40°	1299.0	40.7
0°-60°	2365.7	74.2
0°-90°	3188.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3188.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1002	1002	1002	1002	1002	
5°	1002	1001	996	1001	1001	95
15°	968	968	966	974	972	273
25°	898	901	908	916	917	414
35°	797	803	816	832	835	499
45°	669	680	704	734	746	516
55°	517	536	584	629	652	461
65°	342	376	454	514	538	339
75°	161	220	307	359	370	173
85°	32	65	79	85	88	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1002.5	1002.5	1002.5	1002.5	1002.5
2.5°	1004.1	1004.1	999.3	1002.5	1002.5
5°	1002.5	1001.0	996.3	1001.0	1001.0
7.5°	997.8	996.3	993.0	997.8	996.3
10°	988.2	988.2	985.2	990.0	990.0
12.5°	980.4	978.9	977.2	983.5	982.0
15°	967.8	967.8	966.1	974.1	972.4
17.5°	952.0	953.5	955.1	961.4	963.1
20°	934.5	937.7	939.2	948.8	948.8
22.5°	918.6	920.4	923.4	932.9	932.9
25°	898.2	901.3	907.6	915.6	917.1
27.5°	877.7	879.2	887.2	898.2	899.8
30°	850.8	855.5	864.9	877.7	879.2
32.5°	826.9	831.7	842.8	855.5	858.6
35°	797.0	803.3	815.9	831.7	834.9
37.5°	770.1	774.9	790.7	808.1	812.8
40°	736.9	746.3	762.1	782.7	790.7
42.5°	703.8	713.1	732.2	759.1	768.6
45°	668.9	679.9	703.8	733.7	746.3
47.5°	634.2	646.8	673.6	708.3	722.6
50°	594.5	610.3	643.5	683.2	699.0
52.5°	556.6	575.6	612.1	656.3	676.9
55°	517.1	536.0	583.5	629.4	651.5
57.5°	472.9	498.0	550.3	602.5	626.2
60°	431.7	455.3	518.6	575.6	599.3
62.5°	387.4	419.1	487.0	547.0	570.9
65°	341.5	376.4	453.8	513.9	537.7
67.5°	300.5	338.4	420.6	480.7	504.5
70°	251.5	298.8	384.2	444.3	468.1
72.5°	205.5	257.8	346.3	404.8	426.9
75°	161.3	219.8	306.8	359.0	370.1
77.5°	120.1	181.9	265.6	287.7	279.9
80°	85.4	145.5	207.1	196.0	200.8
82.5°	55.3	110.8	128.1	145.5	150.2
85°	31.7	64.8	79.1	85.4	88.5
87.5°	14.3	23.6	31.7	31.7	30.1
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG





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







(END OF REPORT)