

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: P843036

Luminaire Tested: **24CZ2-35HE-SQR-UNV-B50**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P843036
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P388488)
Test Lab: INNOVATION CENTER (G2)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-35HE-SQR-UNV-B50
Description: 2X4 3500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND SQR LENS

Light Source: -
Ballast/Driver: -

Summary

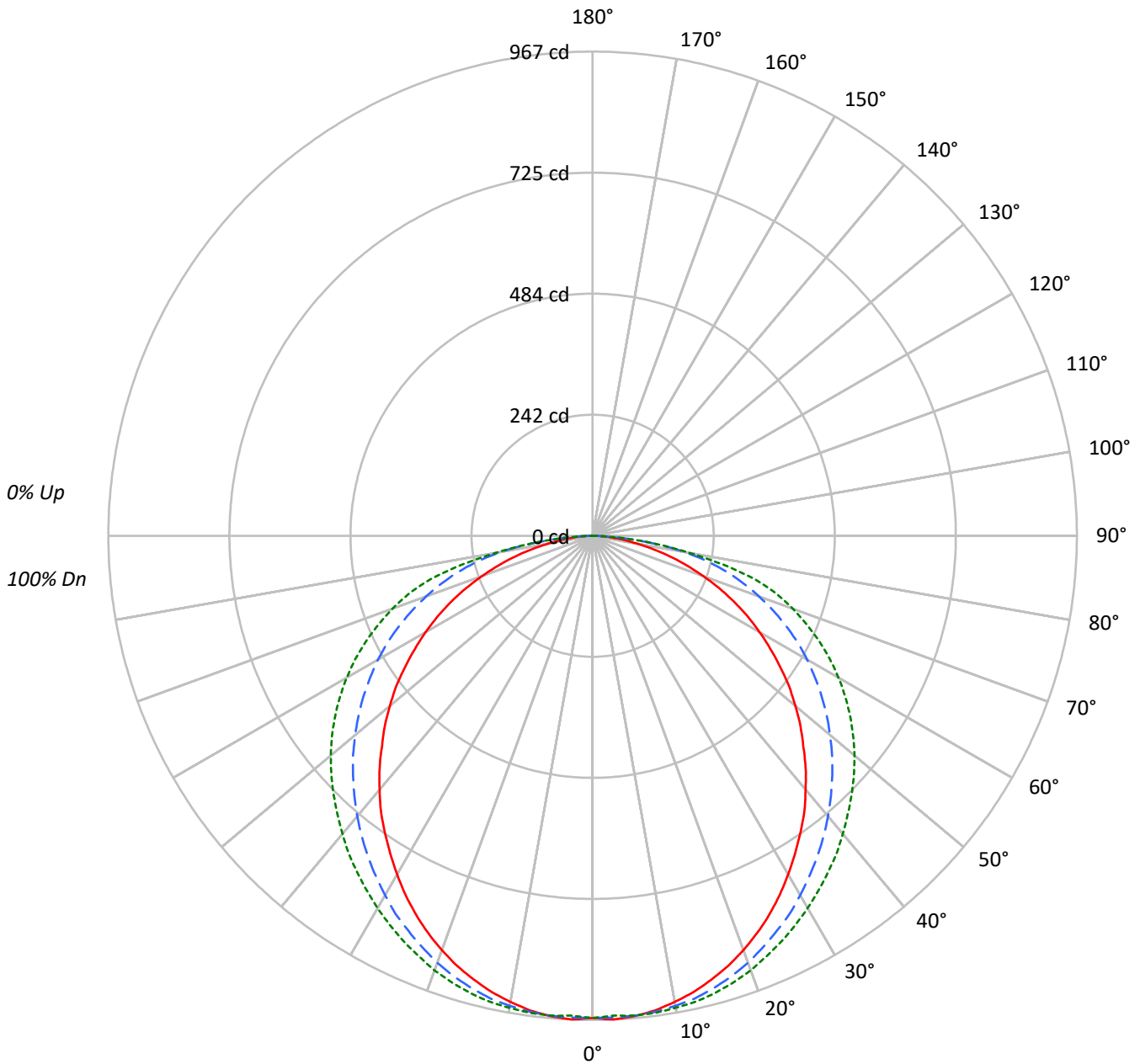
Lumens per Lamp: N/A
Luminaire Lumens: 3013.0 lumens
Efficiency: N/A
Efficacy: 115.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.33 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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	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	89	86	84	82																											
2	98	89	81	75	95	87	80	74	83	78	73	80	75	71	77	73	69	67																											
3	89	77	69	62	86	76	68	61	73	66	60	70	64	59	67	62	58	56																											
4	81	68	59	52	78	67	58	52	64	57	51	62	55	50	60	54	49	47																											
5	74	61	51	44	72	60	51	44	57	50	44	55	49	43	54	48	43	41																											
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35																											
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33	31																											
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	30	28																											
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25																											
10	52	38	30	25	50	37	30	24	36	29	24	36	29	24	35	29	24	22																											

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1359	1359	1359
5°	1364	1363	1363
10°	1355	1366	1372
15°	1340	1366	1381
20°	1323	1363	1387
25°	1300	1356	1391
30°	1273	1351	1399
35°	1246	1347	1412
40°	1219	1347	1432
45°	1187	1350	1460
50°	1160	1359	1499
55°	1126	1374	1545
60°	1087	1396	1601
65°	1040	1422	1668
70°	965	1458	1753
75°	874	1508	1834
80°	736	1513	1577
85°	564	1143	1143



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.4	3.0
10°-20°	263.0	8.7
20°-30°	399.5	13.3
30°-40°	486.0	16.1
40°-50°	517.4	17.2
50°-60°	492.8	16.4
60°-70°	412.1	13.7
70°-80°	274.8	9.1
80°-90°	76.0	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°	754.0	25.0
0°-40°	1239.9	41.2
0°-60°	2250.1	74.7
0°-90°	3013.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3013.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	963	963	963	963	963	
5°	963	957	962	962	962	91
15°	917	919	935	942	945	259
25°	835	846	871	886	894	384
35°	723	744	782	808	820	453
45°	595	627	676	714	731	460
55°	458	497	558	607	628	409
65°	311	357	426	479	500	308
75°	160	211	277	323	336	170
85°	35	65	71	70	71	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	963.0	963.0	963.0	963.0	963.0
2.5°	967.1	960.1	963.0	963.0	959.2
5°	963.0	957.1	962.1	962.1	962.1
7.5°	956.2	951.2	959.2	961.1	961.1
10°	945.2	943.3	953.2	956.2	957.1
12.5°	933.3	932.3	946.2	950.1	953.2
15°	917.3	919.3	935.2	942.2	945.2
17.5°	900.5	904.3	922.3	932.3	935.2
20°	880.6	886.5	907.4	917.3	923.4
22.5°	858.7	867.6	889.5	901.4	908.4
25°	834.8	845.6	870.6	885.5	893.5
27.5°	808.9	822.9	851.7	868.5	876.5
30°	781.0	796.9	828.8	848.7	858.7
32.5°	752.2	771.0	805.9	827.8	839.7
35°	723.3	744.3	782.0	807.9	819.8
37.5°	694.5	715.3	757.2	785.0	800.0
40°	661.6	686.5	731.3	762.1	777.1
42.5°	629.8	656.6	704.4	738.2	754.2
45°	594.9	626.9	676.5	714.4	731.3
47.5°	563.1	594.9	648.7	688.5	707.4
50°	528.3	562.1	618.8	662.7	682.6
52.5°	494.5	529.4	589.0	635.8	655.7
55°	457.7	497.4	558.2	606.9	627.8
57.5°	420.9	463.7	526.3	577.1	598.0
60°	385.1	428.8	494.5	545.3	567.1
62.5°	349.2	393.0	461.6	513.3	534.3
65°	311.4	357.1	425.8	478.6	499.5
67.5°	273.6	321.3	390.0	442.7	462.6
70°	233.8	284.6	353.3	405.0	424.9
72.5°	197.1	247.7	315.4	366.2	385.1
75°	160.2	210.9	276.6	323.4	336.3
77.5°	124.4	175.1	233.8	264.7	267.7
80°	90.5	138.4	186.1	195.0	194.0
82.5°	60.6	103.4	128.4	129.3	132.3
85°	34.8	64.7	70.6	69.7	70.6
87.5°	14.0	22.9	19.9	14.9	14.9
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)