

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: P843019

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

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P843019
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: 24CZ2-35-SQR-UNV-B35
Description: 2X4 3500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND SQR LENS

Light Source: -
Ballast/Driver: -

Summary

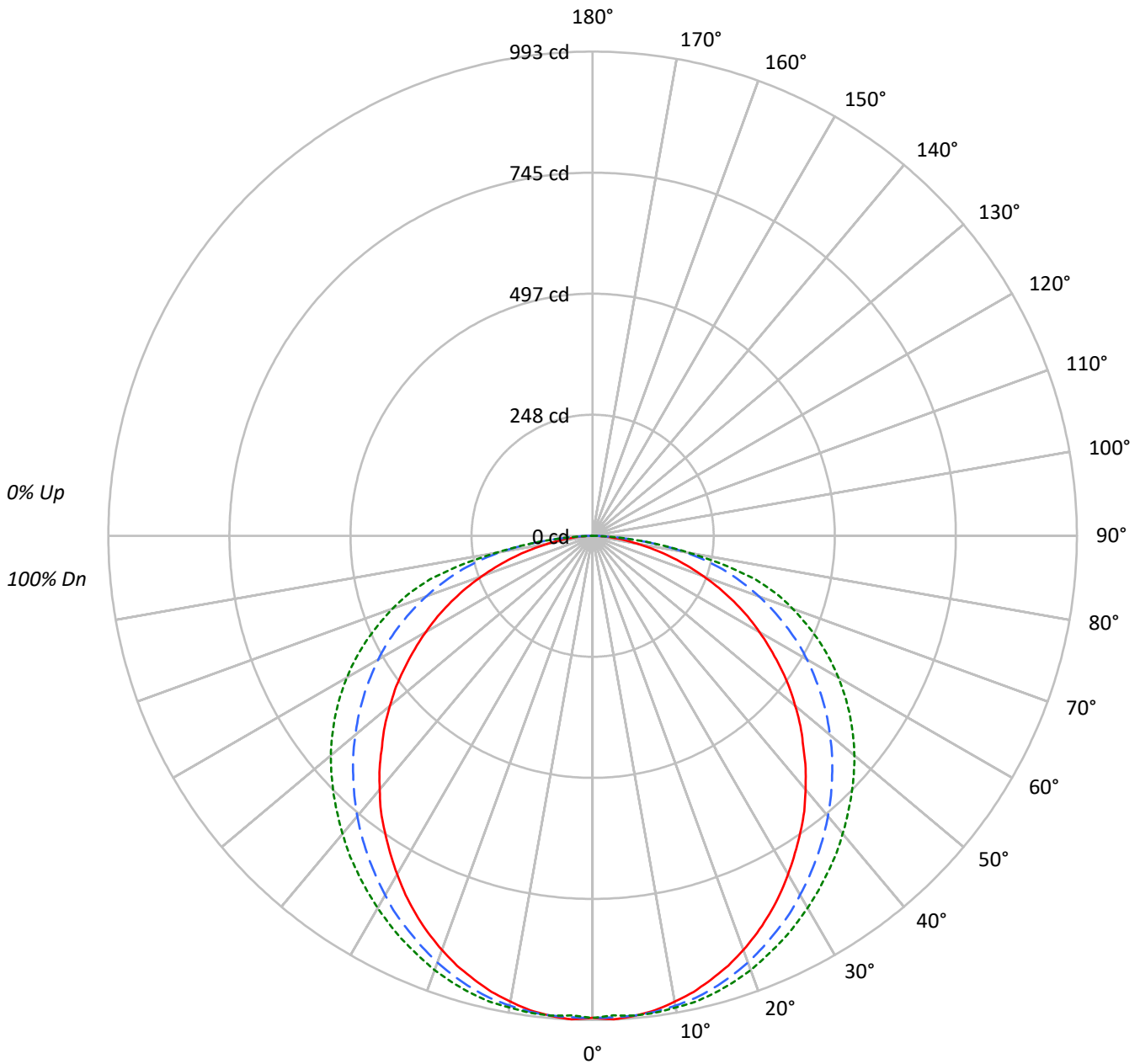
Lumens per Lamp: N/A
Luminaire Lumens: 3093.0 lumens
Efficiency: N/A
Efficacy: 110.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.33 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 28
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	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°	1395	1395	1395
5°	1401	1399	1399
10°	1391	1402	1408
15°	1376	1403	1418
20°	1358	1399	1424
25°	1334	1392	1428
30°	1307	1387	1437
35°	1279	1383	1450
40°	1251	1383	1470
45°	1219	1386	1499
50°	1191	1395	1538
55°	1156	1410	1586
60°	1116	1433	1643
65°	1067	1460	1713
70°	990	1496	1800
75°	897	1548	1882
80°	755	1552	1618
85°	578	1174	1174



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.8	3.0
10°-20°	270.0	8.7
20°-30°	410.1	13.3
30°-40°	498.9	16.1
40°-50°	531.1	17.2
50°-60°	505.9	16.4
60°-70°	423.0	13.7
70°-80°	282.1	9.1
80°-90°	78.0	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°	774.0	25.0
0°-40°	1272.8	41.2
0°-60°	2309.9	74.7
0°-90°	3093.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3093.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	989	989	989	989	989	
5°	989	982	988	988	988	94
15°	942	944	960	967	970	266
25°	857	868	894	909	917	395
35°	742	764	803	829	842	465
45°	611	644	694	733	751	472
55°	470	511	573	623	644	420
65°	320	367	437	491	513	316
75°	164	216	284	332	345	174
85°	36	66	72	72	72	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	988.6	988.6	988.6	988.6	988.6
2.5°	992.7	985.6	988.6	988.6	984.6
5°	988.6	982.5	987.7	987.7	987.7
7.5°	981.6	976.4	984.6	986.6	986.6
10°	970.3	968.3	978.5	981.6	982.5
12.5°	958.1	957.0	971.4	975.3	978.5
15°	941.6	943.8	960.1	967.2	970.3
17.5°	924.4	928.4	946.8	957.0	960.1
20°	903.9	910.0	931.5	941.6	947.9
22.5°	881.5	890.7	913.1	925.3	932.5
25°	856.9	868.1	893.7	909.0	917.2
27.5°	830.4	844.7	874.3	891.6	899.8
30°	801.7	818.1	850.8	871.3	881.5
32.5°	772.1	791.5	827.3	849.8	862.0
35°	742.5	764.0	802.8	829.3	841.5
37.5°	712.9	734.3	777.3	805.8	821.2
40°	679.2	704.7	750.8	782.3	797.7
42.5°	646.6	674.0	723.1	757.8	774.3
45°	610.7	643.5	694.5	733.4	750.8
47.5°	578.1	610.7	665.9	706.8	726.2
50°	542.4	577.0	635.3	680.3	700.7
52.5°	507.6	543.4	604.6	652.7	673.1
55°	469.9	510.6	573.0	623.1	644.4
57.5°	432.1	476.0	540.2	592.4	613.9
60°	395.3	440.2	507.6	559.7	582.2
62.5°	358.5	403.4	473.9	527.0	548.5
65°	319.6	366.6	437.1	491.3	512.8
67.5°	280.9	329.8	400.3	454.5	474.9
70°	240.0	292.2	362.6	415.7	436.2
72.5°	202.3	254.3	323.7	375.9	395.3
75°	164.5	216.5	283.9	332.0	345.2
77.5°	127.7	179.7	240.0	271.7	274.8
80°	92.9	142.0	191.0	200.2	199.1
82.5°	62.3	106.2	131.8	132.7	135.8
85°	35.7	66.4	72.5	71.5	72.5
87.5°	14.3	23.5	20.4	15.3	15.3
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)