

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: P843021

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

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P843021
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-B50
Description: 2X4 3500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND SQR LENS

Light Source: -
Ballast/Driver: -

Summary

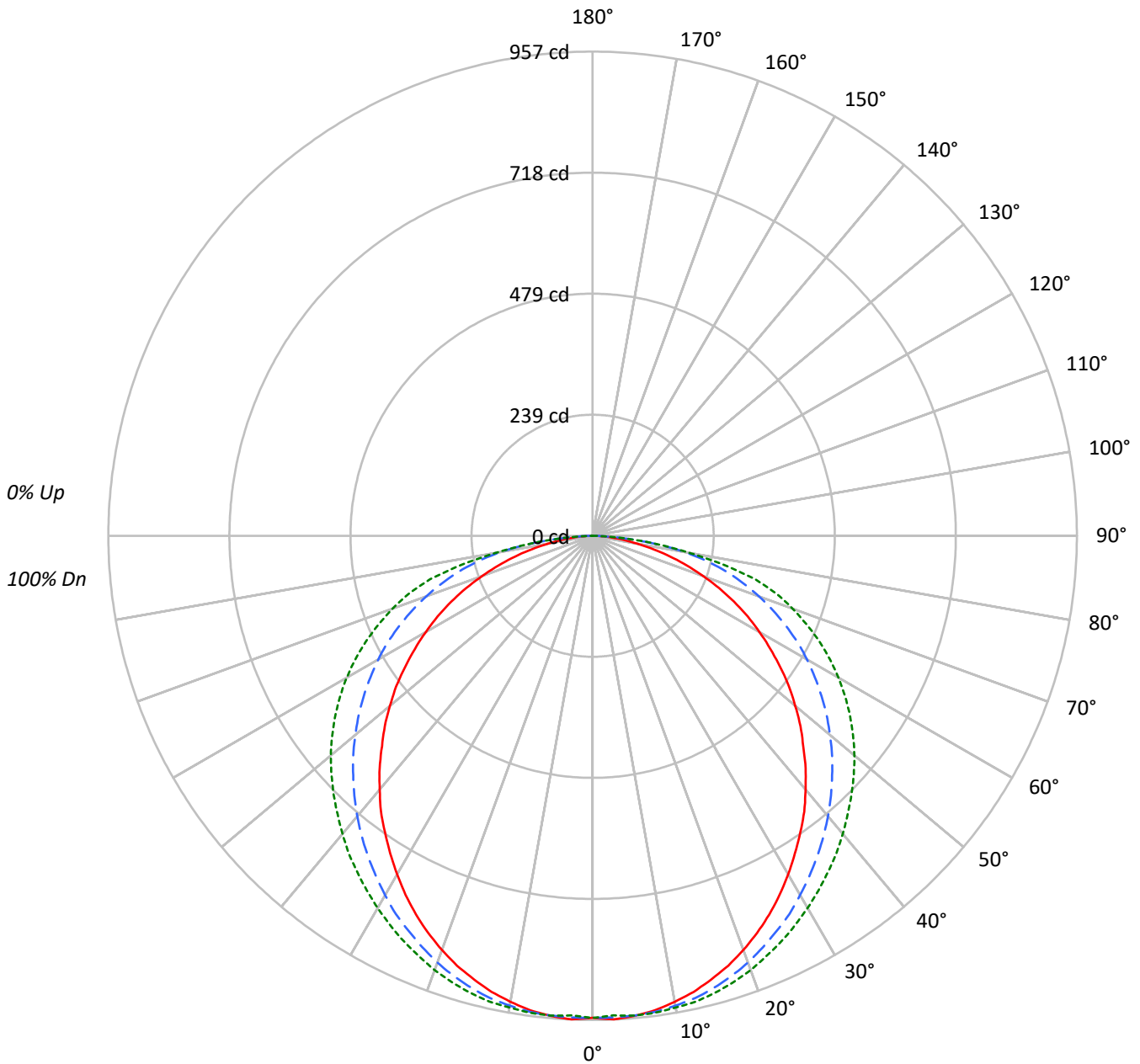
Lumens per Lamp: N/A
Luminaire Lumens: 2981.0 lumens
Efficiency: N/A
Efficacy: 106.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.33 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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°	1345	1345	1345
5°	1350	1349	1349
10°	1340	1352	1357
15°	1326	1352	1366
20°	1308	1348	1372
25°	1286	1341	1377
30°	1259	1336	1385
35°	1233	1333	1397
40°	1206	1333	1417
45°	1175	1336	1444
50°	1148	1344	1483
55°	1114	1359	1528
60°	1075	1381	1584
65°	1029	1407	1650
70°	954	1442	1735
75°	864	1492	1814
80°	728	1496	1560
85°	557	1130	1130



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.4	3.0
10°-20°	260.2	8.7
20°-30°	395.3	13.3
30°-40°	480.8	16.1
40°-50°	511.9	17.2
50°-60°	487.6	16.4
60°-70°	407.7	13.7
70°-80°	271.9	9.1
80°-90°	75.2	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°	746.0	25.0
0°-40°	1226.8	41.2
0°-60°	2226.2	74.7
0°-90°	2981.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2981.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	953	953	953	953	953	
5°	953	947	952	952	952	90
15°	908	910	925	932	935	256
25°	826	837	861	876	884	380
35°	716	736	774	799	811	448
45°	589	620	669	707	724	455
55°	453	492	552	600	621	405
65°	308	353	421	474	494	304
75°	158	209	274	320	333	168
85°	34	64	70	69	70	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	952.8	952.8	952.8	952.8	952.8
2.5°	956.8	949.9	952.8	952.8	949.0
5°	952.8	946.9	951.9	951.9	951.9
7.5°	946.0	941.1	949.0	950.9	950.9
10°	935.2	933.2	943.1	946.0	946.9
12.5°	923.4	922.4	936.2	940.0	943.1
15°	907.5	909.6	925.3	932.2	935.2
17.5°	890.9	894.7	912.5	922.4	925.3
20°	871.2	877.1	897.8	907.5	913.5
22.5°	849.6	858.4	880.0	891.8	898.7
25°	825.9	836.7	861.4	876.1	884.0
27.5°	800.3	814.1	842.7	859.3	867.2
30°	772.7	788.4	820.0	839.7	849.6
32.5°	744.2	762.8	797.4	819.0	830.8
35°	715.6	736.4	773.7	799.3	811.1
37.5°	687.1	707.7	749.2	776.7	791.5
40°	654.6	679.2	723.6	754.0	768.9
42.5°	623.1	649.6	697.0	730.4	746.2
45°	588.6	620.2	669.3	706.8	723.6
47.5°	557.1	588.6	641.8	681.2	699.9
50°	522.7	556.1	612.3	655.6	675.3
52.5°	489.2	523.7	582.7	629.0	648.7
55°	452.9	492.1	552.3	600.5	621.1
57.5°	416.4	458.8	520.7	571.0	591.7
60°	381.0	424.2	489.2	539.5	561.1
62.5°	345.5	388.8	456.7	507.9	528.6
65°	308.1	353.3	421.3	473.5	494.2
67.5°	270.7	317.9	385.8	438.0	457.7
70°	231.3	281.6	349.5	400.7	420.4
72.5°	195.0	245.1	312.0	362.3	381.0
75°	158.5	208.7	273.6	320.0	332.7
77.5°	123.1	173.2	231.3	261.9	264.8
80°	89.6	136.9	184.1	192.9	191.9
82.5°	60.0	102.3	127.0	127.9	130.9
85°	34.4	64.0	69.8	69.0	69.8
87.5°	13.8	22.6	19.7	14.7	14.7
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)