

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: P843064

Luminaire Tested: **24CZ2-40HE-SQR-UNV-B35**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P843064
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: 24CZ2-40HE-SQR-UNV-B35
Description: 2X4 4000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND SQR LENS

Light Source: -
Ballast/Driver: -

Summary

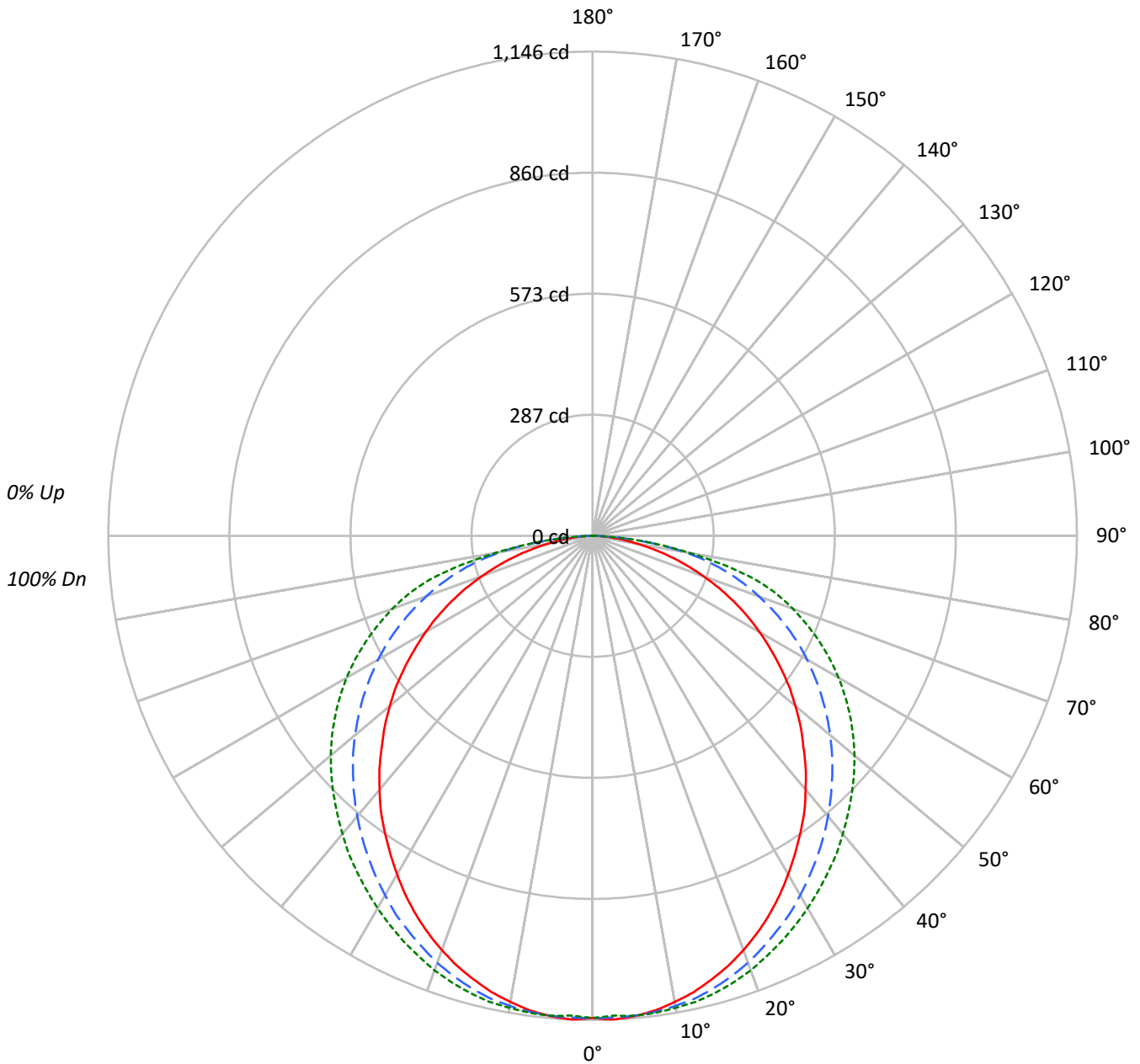
Lumens per Lamp: N/A
Luminaire Lumens: 3571.0 lumens
Efficiency: N/A
Efficacy: 123.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.33 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 29
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°	1611	1611	1611
5°	1617	1615	1615
10°	1606	1619	1626
15°	1589	1620	1637
20°	1567	1615	1644
25°	1541	1607	1649
30°	1508	1601	1659
35°	1477	1597	1674
40°	1445	1597	1697
45°	1407	1600	1730
50°	1375	1611	1776
55°	1335	1628	1831
60°	1288	1654	1897
65°	1232	1685	1977
70°	1143	1728	2078
75°	1036	1787	2174
80°	872	1792	1869
85°	667	1355	1355



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.4	3.0
10°-20°	311.7	8.7
20°-30°	473.5	13.3
30°-40°	576.0	16.1
40°-50°	613.2	17.2
50°-60°	584.1	16.4
60°-70°	488.4	13.7
70°-80°	325.7	9.1
80°-90°	90.1	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°	893.6	25.0
0°-40°	1469.6	41.2
0°-60°	2666.9	74.7
0°-90°	3571.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3571.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1141	1141	1141	1141	1141	
5°	1141	1134	1140	1140	1140	108
15°	1087	1090	1108	1117	1120	307
25°	989	1002	1032	1050	1059	456
35°	857	882	927	958	972	536
45°	705	743	802	847	867	545
55°	542	590	662	719	744	485
65°	369	423	505	567	592	365
75°	190	250	328	383	399	201
85°	41	77	84	83	84	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1141.4	1141.4	1141.4	1141.4	1141.4
2.5°	1146.2	1137.9	1141.4	1141.4	1136.8
5°	1141.4	1134.4	1140.3	1140.3	1140.3
7.5°	1133.3	1127.3	1136.8	1139.1	1139.1
10°	1120.3	1118.0	1129.8	1133.3	1134.4
12.5°	1106.2	1104.9	1121.5	1126.1	1129.8
15°	1087.2	1089.6	1108.5	1116.7	1120.3
17.5°	1067.2	1071.8	1093.1	1104.9	1108.5
20°	1043.6	1050.7	1075.5	1087.2	1094.4
22.5°	1017.7	1028.3	1054.2	1068.3	1076.6
25°	989.4	1002.3	1031.8	1049.5	1059.0
27.5°	958.7	975.3	1009.5	1029.4	1038.9
30°	925.6	944.5	982.3	1005.9	1017.7
32.5°	891.5	913.8	955.2	981.1	995.2
35°	857.3	882.1	926.9	957.5	971.6
37.5°	823.1	847.8	897.4	930.4	948.2
40°	784.2	813.6	866.8	903.3	921.0
42.5°	746.5	778.2	834.9	874.9	893.9
45°	705.1	743.0	801.8	846.7	866.8
47.5°	667.4	705.1	768.9	816.1	838.4
50°	626.2	666.2	733.5	785.4	809.0
52.5°	586.0	627.4	698.1	753.5	777.1
55°	542.5	589.6	661.6	719.4	744.0
57.5°	498.8	549.6	623.7	684.0	708.8
60°	456.4	508.2	586.0	646.3	672.2
62.5°	413.9	465.7	547.1	608.4	633.2
65°	369.0	423.3	504.7	567.2	592.0
67.5°	324.3	380.8	462.2	524.7	548.3
70°	277.1	337.3	418.7	480.0	503.6
72.5°	233.6	293.6	373.8	434.0	456.4
75°	189.9	250.0	327.8	383.3	398.6
77.5°	147.4	207.5	277.1	313.7	317.2
80°	107.3	164.0	220.5	231.1	229.9
82.5°	71.9	122.6	152.2	153.2	156.8
85°	41.2	76.6	83.7	82.6	83.7
87.5°	16.6	27.1	23.6	17.6	17.6
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)