

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: P843050

Luminaire Tested: **24CZ2-40-SQR-UNV-B40**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P843050
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: 24CZ2-40-SQR-UNV-B40
Description: 2X4 4000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND SQR LENS

Light Source: -
Ballast/Driver: -

Summary

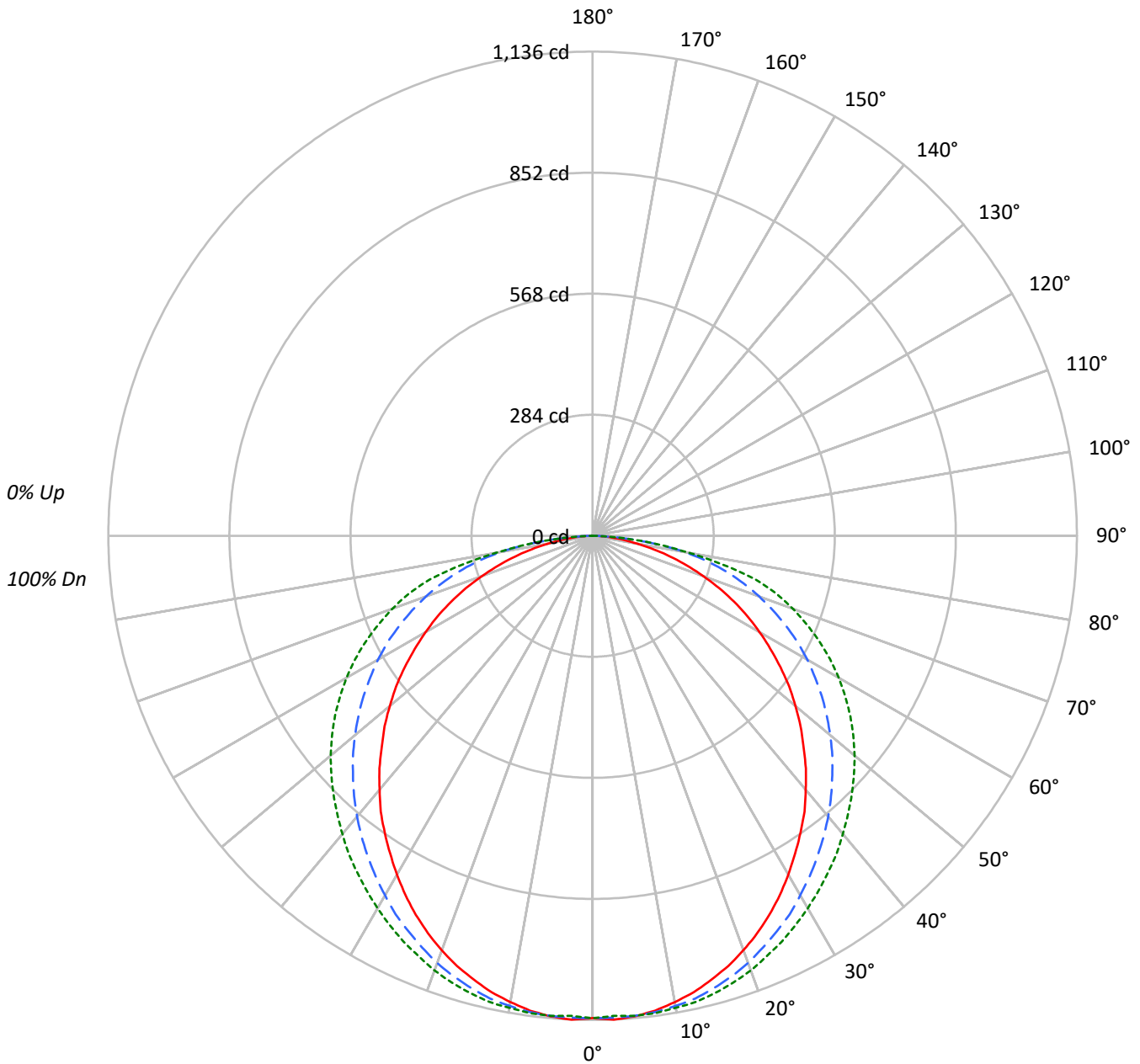
Lumens per Lamp: N/A
Luminaire Lumens: 3541.0 lumens
Efficiency: N/A
Efficacy: 114.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.33 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 31
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°	1597	1597	1597
5°	1603	1602	1602
10°	1592	1606	1612
15°	1575	1606	1623
20°	1554	1602	1630
25°	1528	1593	1635
30°	1496	1587	1645
35°	1465	1584	1660
40°	1433	1584	1683
45°	1396	1587	1716
50°	1363	1597	1761
55°	1324	1614	1815
60°	1277	1640	1881
65°	1222	1671	1960
70°	1134	1713	2060
75°	1027	1772	2156
80°	865	1778	1852
85°	662	1344	1344



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.4	3.0
10°-20°	309.1	8.7
20°-30°	469.5	13.3
30°-40°	571.1	16.1
40°-50°	608.1	17.2
50°-60°	579.1	16.4
60°-70°	484.3	13.7
70°-80°	322.9	9.1
80°-90°	89.4	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°	886.1	25.0
0°-40°	1457.2	41.2
0°-60°	2644.5	74.7
0°-90°	3541.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3541.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1132	1132	1132	1132	1132	
5°	1132	1125	1131	1131	1131	107
15°	1078	1080	1099	1107	1111	304
25°	981	994	1023	1041	1050	452
35°	850	875	919	950	963	532
45°	699	737	795	840	860	541
55°	538	585	656	713	738	481
65°	366	420	500	562	587	362
75°	188	248	325	380	395	199
85°	41	76	83	82	83	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1131.8	1131.8	1131.8	1131.8	1131.8
2.5°	1136.5	1128.3	1131.8	1131.8	1127.3
5°	1131.8	1124.8	1130.7	1130.7	1130.7
7.5°	1123.8	1117.8	1127.3	1129.5	1129.5
10°	1110.8	1108.6	1120.3	1123.8	1124.8
12.5°	1096.9	1095.6	1112.1	1116.6	1120.3
15°	1078.0	1080.5	1099.1	1107.3	1110.8
17.5°	1058.3	1062.8	1083.9	1095.6	1099.1
20°	1034.9	1041.9	1066.5	1078.0	1085.2
22.5°	1009.2	1019.7	1045.3	1059.3	1067.5
25°	981.1	993.8	1023.2	1040.6	1050.1
27.5°	950.7	967.1	1001.0	1020.7	1030.2
30°	917.9	936.5	974.1	997.5	1009.2
32.5°	884.0	906.2	947.2	972.9	986.8
35°	850.1	874.7	919.1	949.5	963.4
37.5°	816.2	840.7	889.9	922.6	940.2
40°	777.6	806.8	859.5	895.7	913.3
42.5°	740.2	771.7	827.9	867.6	886.4
45°	699.2	736.7	795.1	839.6	859.5
47.5°	661.8	699.2	762.4	809.2	831.4
50°	620.9	660.6	727.3	778.8	802.2
52.5°	581.1	622.1	692.2	747.2	770.6
55°	537.9	584.6	656.0	713.3	737.8
57.5°	494.6	544.9	618.5	678.2	702.8
60°	452.5	503.9	581.1	640.8	666.5
62.5°	410.4	461.8	542.5	603.3	627.9
65°	365.9	419.7	500.4	562.4	587.0
67.5°	321.6	377.6	458.3	520.3	543.7
70°	274.7	334.5	415.2	475.9	499.3
72.5°	231.6	291.2	370.6	430.4	452.5
75°	188.3	247.9	325.0	380.1	395.3
77.5°	146.2	205.8	274.7	311.1	314.6
80°	106.4	162.6	218.7	229.2	227.9
82.5°	71.3	121.6	150.9	152.0	155.5
85°	40.9	76.0	83.0	81.9	83.0
87.5°	16.4	26.9	23.4	17.5	17.5
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)