

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: P843065

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

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P843065
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-B40
Description: 2X4 4000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND SQR LENS

Light Source: -
Ballast/Driver: -

Summary

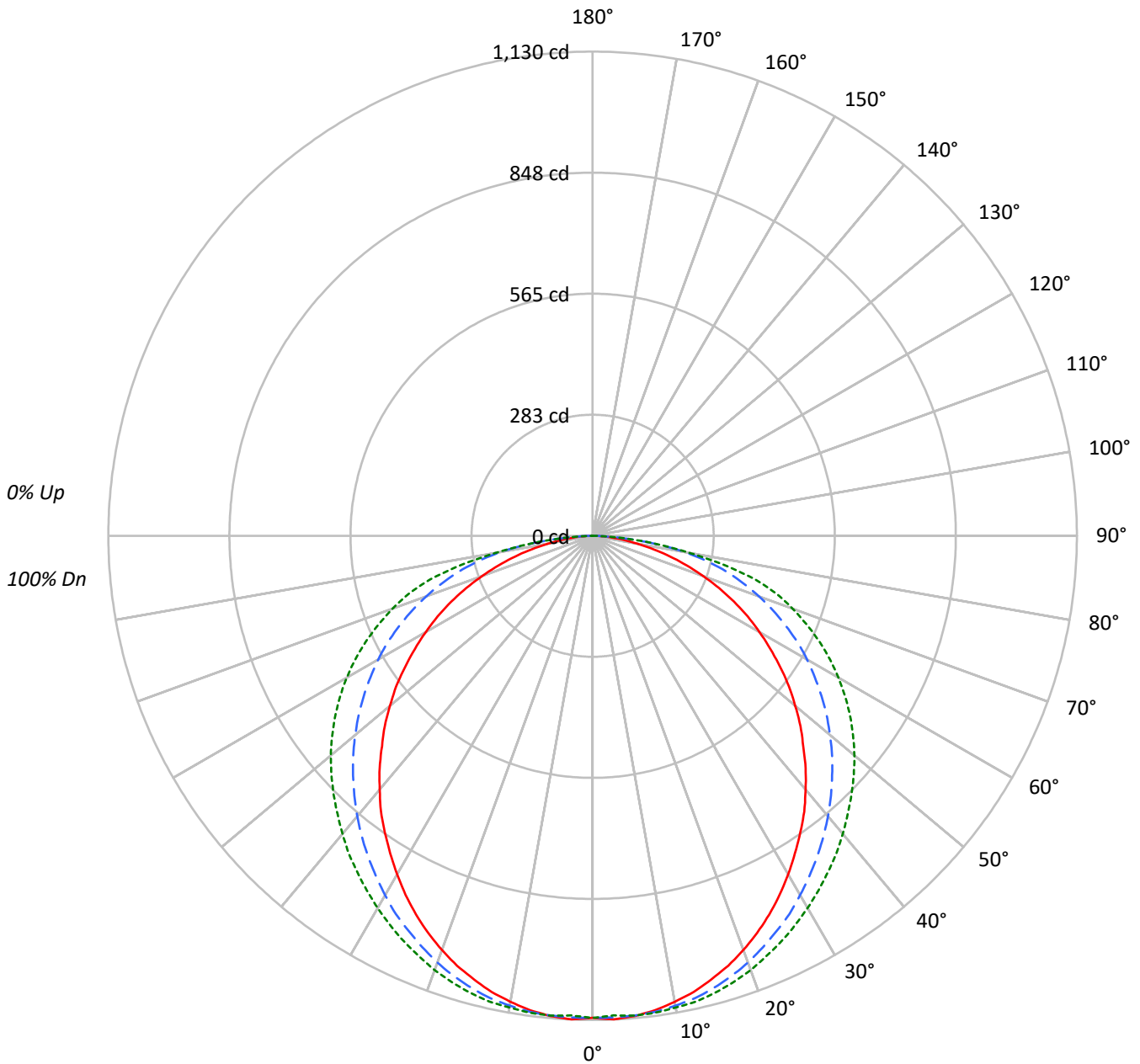
Lumens per Lamp: N/A
Luminaire Lumens: 3520.0 lumens
Efficiency: N/A
Efficacy: 121.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.33 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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°	1588	1588	1588
5°	1594	1592	1592
10°	1583	1596	1603
15°	1566	1596	1614
20°	1545	1592	1620
25°	1519	1584	1625
30°	1487	1578	1635
35°	1456	1574	1650
40°	1424	1574	1673
45°	1387	1578	1705
50°	1355	1587	1751
55°	1316	1605	1805
60°	1270	1631	1870
65°	1215	1661	1949
70°	1127	1703	2048
75°	1021	1762	2142
80°	859	1767	1842
85°	657	1336	1336



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.8	3.0
10°-20°	307.3	8.7
20°-30°	466.7	13.3
30°-40°	567.7	16.1
40°-50°	604.5	17.2
50°-60°	575.7	16.4
60°-70°	481.4	13.7
70°-80°	321.0	9.1
80°-90°	88.8	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°	880.8	25.0
0°-40°	1448.6	41.2
0°-60°	2628.8	74.7
0°-90°	3520.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3520.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1125	1125	1125	1125	1125	
5°	1125	1118	1124	1124	1124	107
15°	1072	1074	1093	1101	1104	302
25°	975	988	1017	1034	1044	449
35°	845	870	914	944	958	529
45°	695	732	790	835	854	537
55°	535	581	652	709	733	478
65°	364	417	497	559	584	359
75°	187	246	323	378	393	198
85°	41	76	82	81	82	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1125.1	1125.1	1125.1	1125.1	1125.1
2.5°	1129.8	1121.6	1125.1	1125.1	1120.6
5°	1125.1	1118.2	1124.0	1124.0	1124.0
7.5°	1117.1	1111.2	1120.6	1122.8	1122.8
10°	1104.3	1102.0	1113.6	1117.1	1118.2
12.5°	1090.4	1089.1	1105.5	1110.0	1113.6
15°	1071.6	1074.0	1092.6	1100.8	1104.3
17.5°	1052.0	1056.5	1077.5	1089.1	1092.6
20°	1028.7	1035.7	1060.1	1071.6	1078.7
22.5°	1003.2	1013.6	1039.1	1053.0	1061.2
25°	975.2	987.9	1017.1	1034.5	1043.8
27.5°	945.0	961.4	995.0	1014.7	1024.0
30°	912.4	931.0	968.3	991.6	1003.2
32.5°	878.7	900.8	941.6	967.1	981.0
35°	845.0	869.5	913.6	943.8	957.7
37.5°	811.3	835.7	884.6	917.1	934.6
40°	773.0	802.0	854.4	890.4	907.9
42.5°	735.8	767.1	823.0	862.4	881.1
45°	695.0	732.3	790.4	834.6	854.4
47.5°	657.9	695.0	757.9	804.4	826.5
50°	617.2	656.7	723.0	774.2	797.5
52.5°	577.7	618.4	688.1	742.8	766.0
55°	534.8	581.1	652.1	709.1	733.4
57.5°	491.7	541.7	614.8	674.2	698.7
60°	449.9	500.9	577.7	637.0	662.6
62.5°	408.0	459.1	539.3	599.7	624.2
65°	363.8	417.2	497.4	559.1	583.5
67.5°	319.6	375.4	455.6	517.2	540.5
70°	273.1	332.5	412.7	473.1	496.4
72.5°	230.2	289.4	368.4	427.8	449.9
75°	187.2	246.4	323.1	377.8	392.9
77.5°	145.3	204.5	273.1	309.2	312.7
80°	105.7	161.6	217.4	227.8	226.6
82.5°	70.8	120.8	150.0	151.1	154.5
85°	40.6	75.5	82.5	81.4	82.5
87.5°	16.3	26.7	23.3	17.4	17.4
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)