

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: P732207

Luminaire Tested: **24CZ2-40-SQR-B2750-W2D-3000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732207
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-B2750-W2D-3000K
Description: 2X4 4000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND SQR LENS

Light Source: -
Ballast/Driver: -

Summary

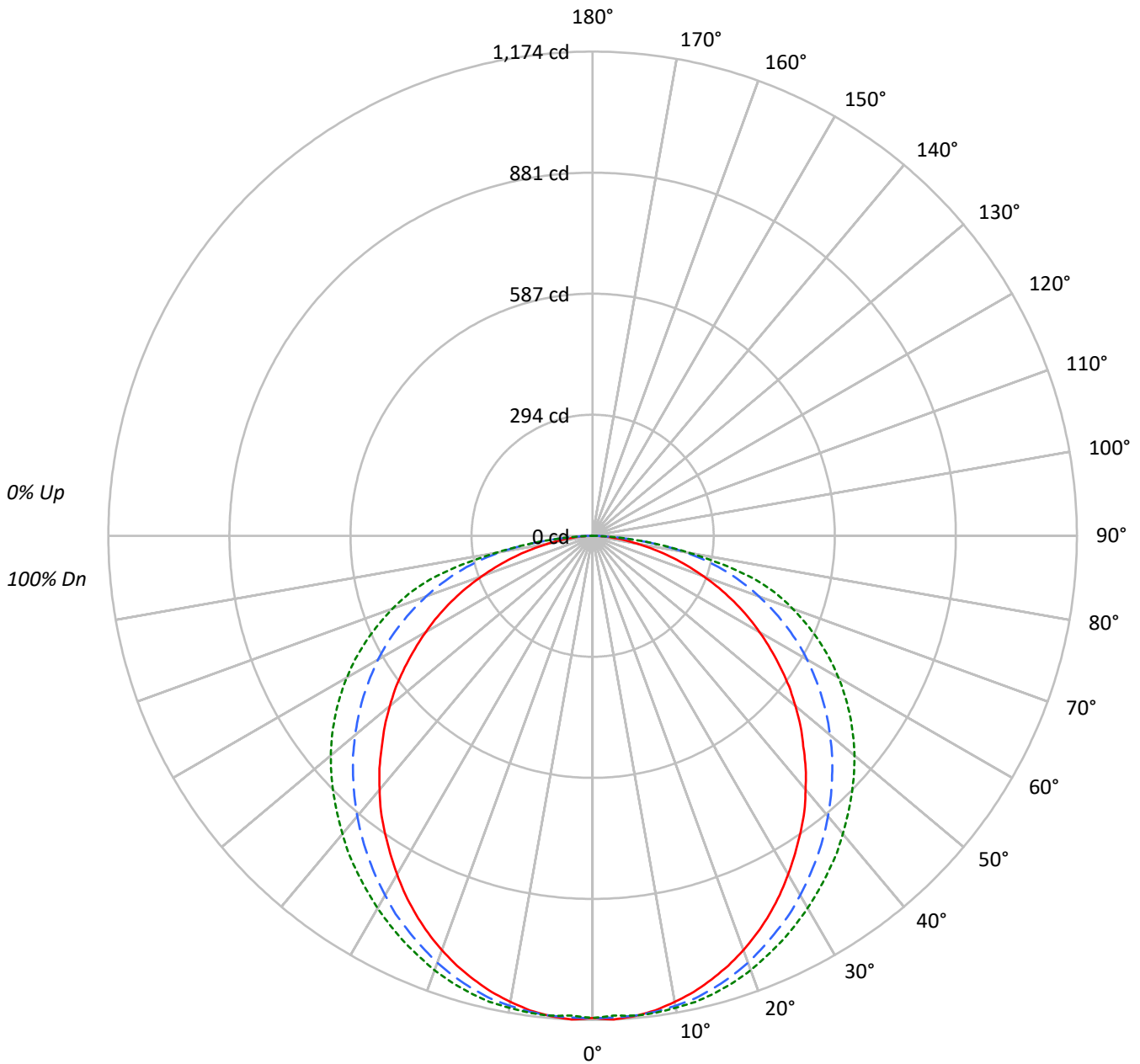
Lumens per Lamp: N/A
Luminaire Lumens: 3658.0 lumens
Efficiency: N/A
Efficacy: 118.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.33 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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				20				20	
RC	80				70				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				100
1	108	103	98	94	105	100	96	92	96	93	89	92	89	87	89	86	84	82				82
2	98	89	81	75	95	87	80	74	83	78	73	80	75	71	77	73	69	67				67
3	89	77	69	62	86	76	68	61	73	66	60	70	64	59	67	62	58	56				56
4	81	68	59	52	78	67	58	52	64	57	51	62	55	50	60	54	49	47				47
5	74	61	51	44	72	60	51	44	57	50	44	55	49	43	54	48	43	41				41
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35				35
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33	31				31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	30	28				28
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25				25
10	52	38	30	25	50	37	30	24	36	29	24	36	29	24	35	29	24	22				22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1650	1650	1650
5°	1656	1655	1655
10°	1644	1659	1665
15°	1627	1659	1677
20°	1606	1655	1684
25°	1578	1646	1689
30°	1545	1640	1699
35°	1513	1636	1715
40°	1480	1636	1738
45°	1442	1639	1772
50°	1408	1650	1820
55°	1367	1668	1875
60°	1320	1694	1943
65°	1262	1726	2025
70°	1171	1770	2128
75°	1061	1831	2226
80°	893	1836	1914
85°	683	1388	1388



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.0	3.0
10°-20°	319.3	8.7
20°-30°	485.1	13.3
30°-40°	590.0	16.1
40°-50°	628.2	17.2
50°-60°	598.3	16.4
60°-70°	500.3	13.7
70°-80°	333.6	9.1
80°-90°	92.3	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°	915.4	25.0
0°-40°	1505.4	41.2
0°-60°	2731.8	74.7
0°-90°	3658.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3658.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1169	1169	1169	1169	1169	
5°	1169	1162	1168	1168	1168	111
15°	1114	1116	1136	1144	1148	314
25°	1014	1027	1057	1075	1085	467
35°	878	904	949	981	995	550
45°	722	761	821	867	888	558
55°	556	604	678	737	762	497
65°	378	434	517	581	606	374
75°	194	256	336	393	408	206
85°	42	78	86	85	86	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1169.2	1169.2	1169.2	1169.2	1169.2
2.5°	1174.1	1165.6	1169.2	1169.2	1164.5
5°	1169.2	1162.0	1168.1	1168.1	1168.1
7.5°	1160.9	1154.8	1164.5	1166.9	1166.9
10°	1147.5	1145.2	1157.3	1160.9	1162.0
12.5°	1133.1	1131.8	1148.8	1153.5	1157.3
15°	1113.6	1116.2	1135.5	1143.9	1147.5
17.5°	1093.2	1097.9	1119.8	1131.8	1135.5
20°	1069.1	1076.3	1101.7	1113.6	1121.0
22.5°	1042.5	1053.4	1079.9	1094.3	1102.8
25°	1013.5	1026.7	1057.0	1075.0	1084.8
27.5°	982.1	999.0	1034.0	1054.5	1064.2
30°	948.2	967.5	1006.3	1030.4	1042.5
32.5°	913.2	936.1	978.5	1005.0	1019.4
35°	878.2	903.6	949.4	980.8	995.3
37.5°	843.2	868.4	919.3	953.0	971.3
40°	803.3	833.4	887.9	925.3	943.5
42.5°	764.7	797.2	855.2	896.2	915.7
45°	722.3	761.1	821.3	867.3	887.9
47.5°	683.7	722.3	787.6	835.9	858.9
50°	641.4	682.4	751.3	804.5	828.7
52.5°	600.3	642.7	715.1	771.9	796.1
55°	555.7	603.9	677.7	736.9	762.2
57.5°	511.0	562.9	638.9	700.6	726.0
60°	467.5	520.6	600.3	662.0	688.5
62.5°	424.0	477.1	560.4	623.2	648.7
65°	378.0	433.6	516.9	581.0	606.4
67.5°	332.2	390.1	473.5	537.5	561.7
70°	283.8	345.5	428.9	491.7	515.8
72.5°	239.2	300.8	382.9	444.6	467.5
75°	194.5	256.0	335.8	392.6	408.3
77.5°	151.0	212.6	283.8	321.3	325.0
80°	109.9	168.0	225.9	236.7	235.5
82.5°	73.6	125.6	155.9	157.0	160.6
85°	42.2	78.5	85.7	84.6	85.7
87.5°	17.0	27.8	24.2	18.1	18.1
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)