

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: P843081

Luminaire Tested: **24CZ2-45-SQR-UNV-B50**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P843081
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: 24CZ2-45-SQR-UNV-B50
Description: 2X4 4500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND SQR LENS

Light Source: -
Ballast/Driver: -

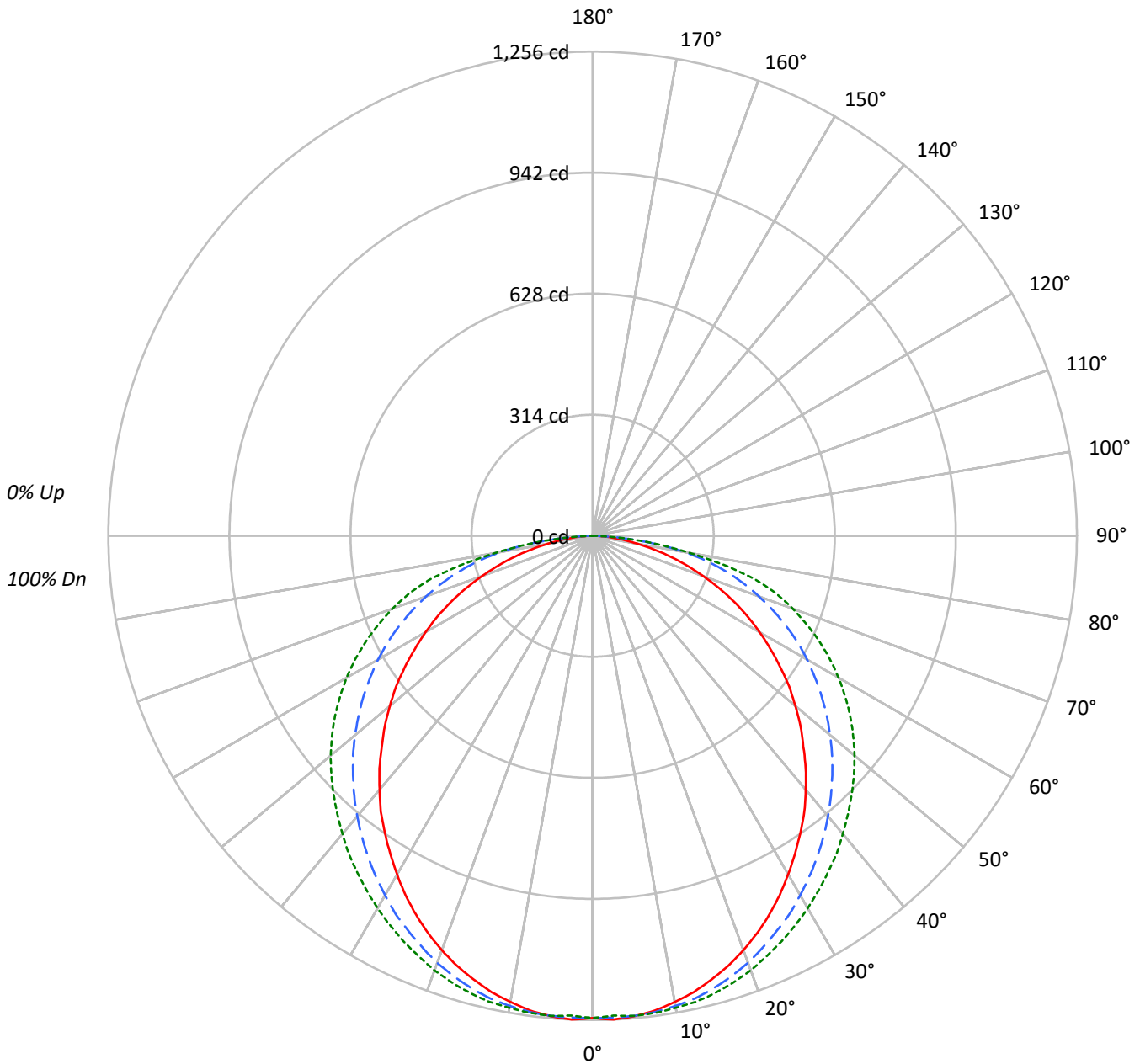
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3914.0 lumens
Efficiency: N/A
Efficacy: 108.7 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): 36
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				
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			
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°	1766	1766	1766
5°	1772	1771	1771
10°	1760	1775	1782
15°	1741	1775	1794
20°	1718	1770	1802
25°	1689	1761	1807
30°	1653	1755	1818
35°	1619	1750	1835
40°	1584	1750	1860
45°	1542	1754	1896
50°	1507	1765	1947
55°	1463	1784	2007
60°	1412	1813	2079
65°	1351	1847	2167
70°	1253	1894	2277
75°	1135	1959	2382
80°	956	1964	2048
85°	732	1485	1485



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.8	3.0
10°-20°	341.7	8.7
20°-30°	519.0	13.3
30°-40°	631.3	16.1
40°-50°	672.1	17.2
50°-60°	640.2	16.4
60°-70°	535.3	13.7
70°-80°	356.9	9.1
80°-90°	98.7	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°	979.4	25.0
0°-40°	1610.7	41.2
0°-60°	2923.0	74.7
0°-90°	3914.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3914.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1251	1251	1251	1251	1251	
5°	1251	1243	1250	1250	1250	119
15°	1192	1194	1215	1224	1228	336
25°	1084	1098	1131	1150	1161	499
35°	940	967	1016	1050	1065	588
45°	773	814	879	928	950	597
55°	595	646	725	788	816	531
65°	404	464	553	622	649	400
75°	208	274	359	420	437	220
85°	45	84	92	90	92	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1251.0	1251.0	1251.0	1251.0	1251.0
2.5°	1256.2	1247.2	1251.0	1251.0	1246.0
5°	1251.0	1243.3	1249.9	1249.9	1249.9
7.5°	1242.1	1235.6	1246.0	1248.5	1248.5
10°	1227.9	1225.3	1238.3	1242.1	1243.3
12.5°	1212.4	1211.1	1229.2	1234.2	1238.3
15°	1191.6	1194.3	1214.9	1224.0	1227.9
17.5°	1169.7	1174.8	1198.1	1211.1	1214.9
20°	1143.9	1151.6	1178.8	1191.6	1199.5
22.5°	1115.5	1127.1	1155.5	1170.9	1180.0
25°	1084.4	1098.5	1130.9	1150.3	1160.7
27.5°	1050.8	1069.0	1106.4	1128.3	1138.7
30°	1014.5	1035.2	1076.7	1102.6	1115.5
32.5°	977.1	1001.6	1047.0	1075.3	1090.8
35°	939.6	966.8	1015.9	1049.5	1064.9
37.5°	902.2	929.2	983.6	1019.7	1039.2
40°	859.5	891.7	950.0	990.0	1009.5
42.5°	818.2	852.9	915.1	958.9	979.8
45°	772.8	814.3	878.8	928.0	950.0
47.5°	731.5	772.8	842.7	894.4	919.0
50°	686.3	730.2	803.9	860.8	886.7
52.5°	642.3	687.7	765.1	825.9	851.8
55°	594.6	646.2	725.1	788.4	815.5
57.5°	546.7	602.3	683.6	749.6	776.9
60°	500.2	557.0	642.3	708.3	736.7
62.5°	453.7	510.5	599.7	666.8	694.0
65°	404.5	463.9	553.1	621.7	648.9
67.5°	355.4	417.4	506.6	575.1	601.0
70°	303.7	369.7	458.9	526.1	551.9
72.5°	256.0	321.8	409.7	475.7	500.2
75°	208.1	274.0	359.3	420.1	436.9
77.5°	161.6	227.4	303.7	343.8	347.7
80°	117.6	179.7	241.7	253.3	252.0
82.5°	78.8	134.4	166.8	168.0	171.8
85°	45.2	84.0	91.7	90.5	91.7
87.5°	18.1	29.7	25.9	19.3	19.3
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)