

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: P843144

Luminaire Tested: **24CZ2-55HE-UNV-B50**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P843144
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P272125)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-55HE-UNV-B50
Description: 2X4 5500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND RIBBED LENS

Light Source: -
Ballast/Driver: -

Summary

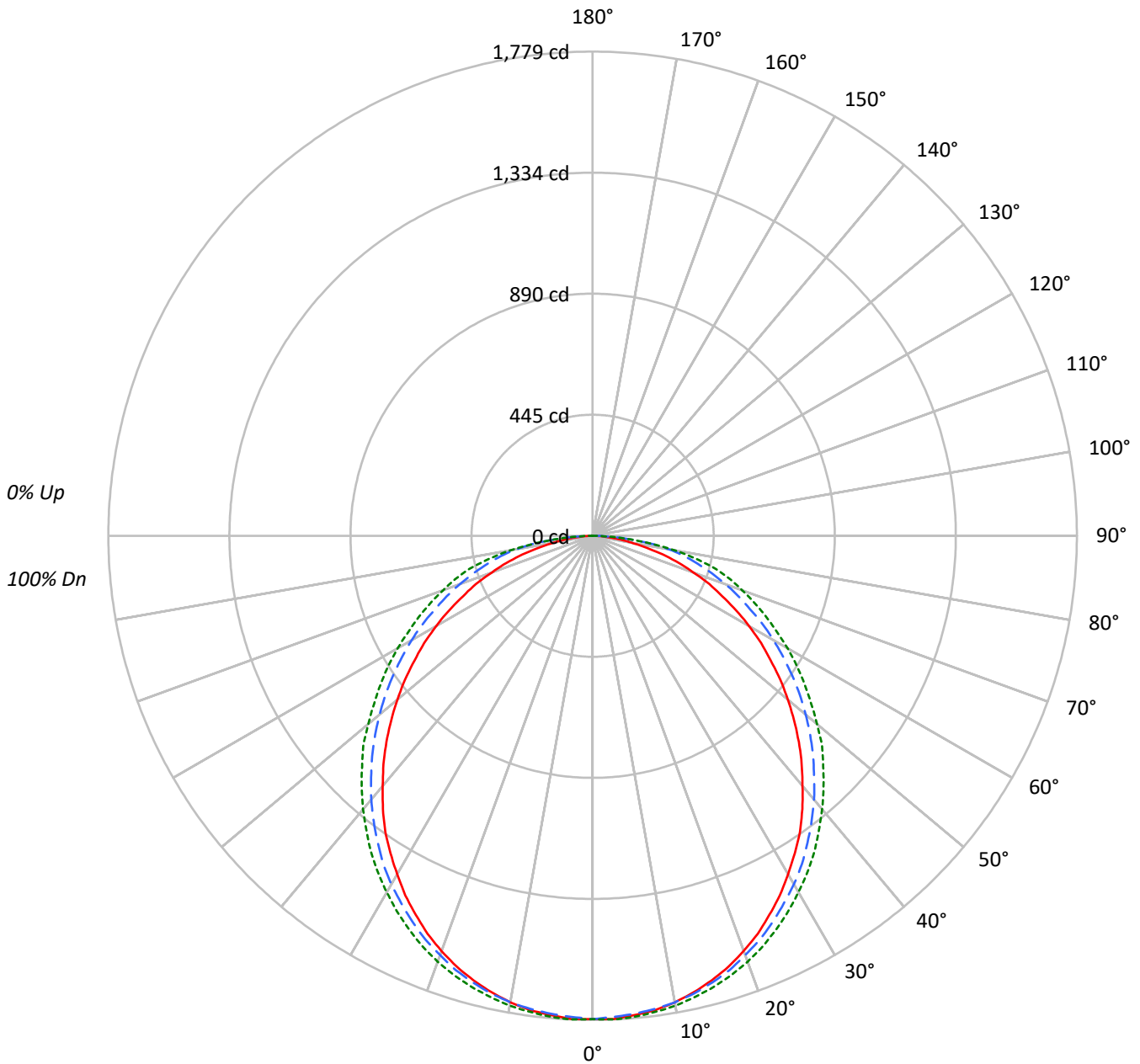
Lumens per Lamp: N/A
Luminaire Lumens: 5055.0 lumens
Efficiency: N/A
Efficacy: 120.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 42
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	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83																			
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69																			
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58																			
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49																			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42																			
6	70	56	47	40	68	55	47	40	53	46	40	52	45	40	50	44	39	37																			
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33																			
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29																			
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26																			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2506	2506	2506
5°	2504	2498	2514
10°	2494	2494	2513
15°	2470	2482	2508
20°	2438	2462	2501
25°	2393	2438	2485
30°	2339	2410	2465
35°	2288	2371	2446
40°	2210	2331	2417
45°	2138	2285	2391
50°	2055	2242	2362
55°	1964	2201	2339
60°	1872	2166	2334
65°	1753	2129	2348
70°	1623	2140	2412
75°	1454	2181	2548
80°	1174	2310	2492
85°	884	2027	1977



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.1	3.3
10°-20°	480.4	9.5
20°-30°	722.1	14.3
30°-40°	860.2	17.0
40°-50°	880.3	17.4
50°-60°	792.6	15.7
60°-70°	622.4	12.3
70°-80°	404.0	8.0
80°-90°	124.9	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°	1370.6	27.1
0°-40°	2230.8	44.1
0°-60°	3903.7	77.2
0°-90°	5055.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5055.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1776	1776	1776	1776	1776	
5°	1768	1771	1763	1773	1774	168
15°	1691	1696	1699	1713	1716	477
25°	1537	1549	1566	1591	1596	708
35°	1328	1344	1376	1410	1419	828
45°	1071	1097	1145	1188	1198	826
55°	798	833	894	941	951	715
65°	525	565	637	690	703	523
75°	267	318	400	454	467	282
85°	55	101	125	122	122	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1775.9	1775.9	1775.9	1775.9	1775.9
2.5°	1777.5	1777.5	1769.4	1777.5	1779.0
5°	1767.8	1771.1	1763.0	1772.6	1774.2
7.5°	1758.1	1758.1	1753.3	1763.0	1764.7
10°	1740.5	1742.1	1740.5	1751.8	1753.3
12.5°	1718.1	1721.2	1722.9	1734.2	1735.7
15°	1690.8	1695.7	1698.7	1713.3	1716.5
17.5°	1660.2	1665.1	1673.0	1689.1	1692.4
20°	1623.3	1629.7	1639.4	1660.2	1665.1
22.5°	1583.3	1589.6	1605.7	1624.8	1633.0
25°	1536.6	1549.4	1565.5	1591.2	1596.0
27.5°	1490.0	1501.2	1522.1	1549.4	1556.0
30°	1435.5	1453.1	1478.8	1506.1	1512.4
32.5°	1382.4	1400.0	1430.6	1459.6	1467.6
35°	1327.9	1343.9	1376.1	1409.7	1419.4
37.5°	1265.2	1286.1	1321.5	1355.2	1364.8
40°	1199.4	1225.2	1265.2	1300.6	1311.8
42.5°	1136.8	1164.0	1204.3	1242.8	1255.5
45°	1071.0	1096.7	1144.9	1188.2	1197.9
47.5°	1003.5	1032.5	1083.7	1127.1	1143.1
50°	936.1	966.7	1021.3	1066.1	1075.8
52.5°	868.6	900.7	958.6	1006.8	1011.6
55°	798.0	833.4	894.4	941.0	950.6
57.5°	733.8	764.3	830.1	878.3	889.5
60°	663.2	696.8	767.4	812.5	826.8
62.5°	595.7	631.1	705.0	749.8	762.6
65°	525.0	565.3	637.4	690.4	703.2
67.5°	464.1	502.6	579.6	631.1	643.8
70°	393.3	436.8	518.7	571.7	584.4
72.5°	332.4	377.2	459.3	510.5	529.9
75°	266.6	317.9	399.9	454.4	467.2
77.5°	202.4	261.7	345.1	386.9	386.9
80°	144.5	207.2	284.2	303.5	306.6
82.5°	94.8	155.7	210.3	208.7	208.7
85°	54.6	101.2	125.2	122.1	122.1
87.5°	20.9	41.8	44.9	44.9	43.3
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)