

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: P843140

Luminaire Tested: **24CZ2-55HE-SQR-UNV-B40**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P843140
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: 24CZ2-55HE-SQR-UNV-B40
Description: 2X4 5500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND SQR LENS

Light Source: -
Ballast/Driver: -

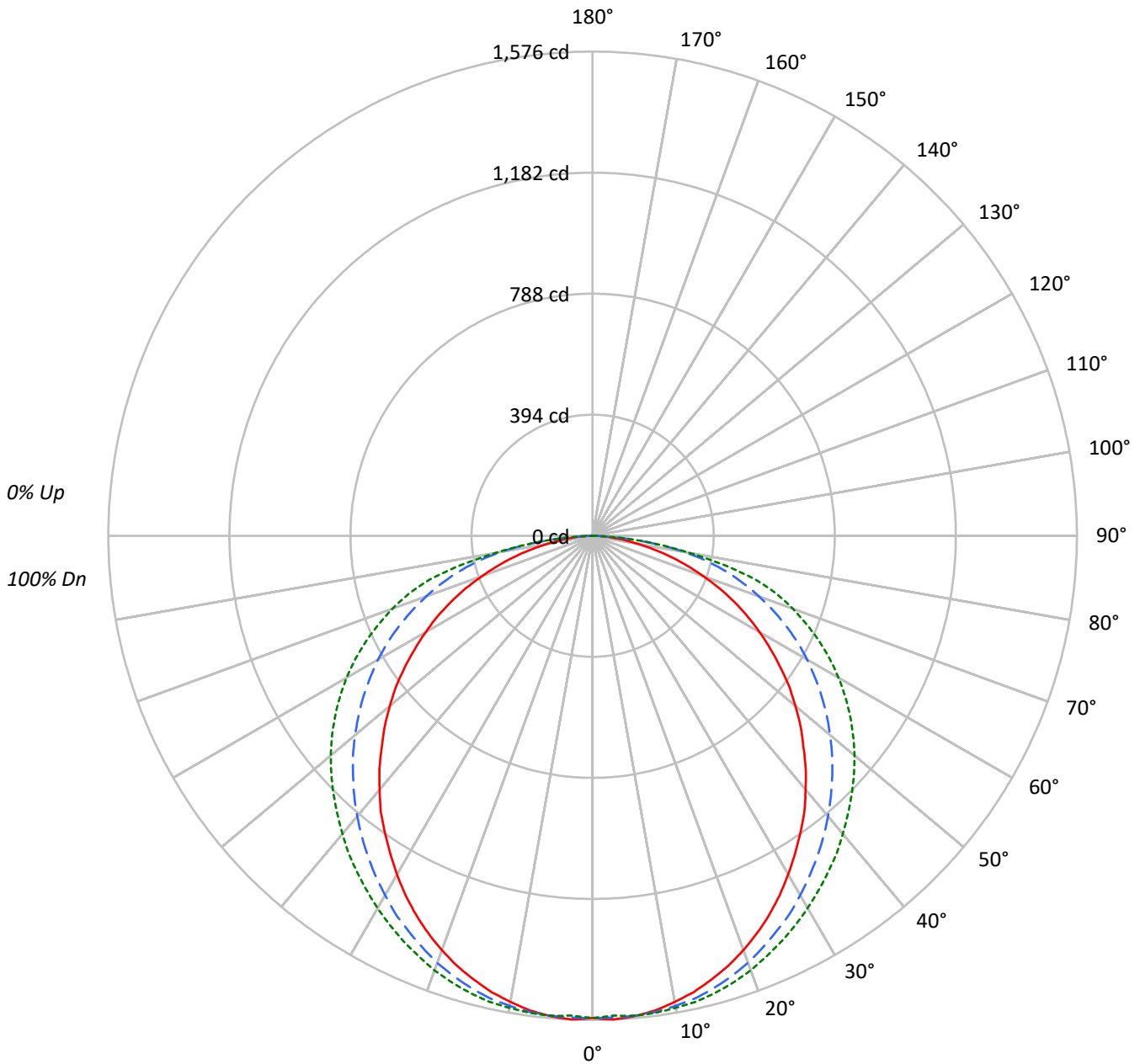
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4911.0 lumens
Efficiency: N/A
Efficacy: 116.9 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): 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

TEST NUMBER: P843140
CATALOG NUMBER: 24CZ2-55HE-SQR-UNV-B40

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			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°	2215	2215	2215
5°	2224	2222	2222
10°	2208	2227	2236
15°	2185	2227	2251
20°	2156	2221	2260
25°	2119	2210	2268
30°	2075	2202	2281
35°	2031	2196	2302
40°	1987	2196	2334
45°	1935	2201	2379
50°	1891	2215	2443
55°	1836	2239	2518
60°	1772	2275	2609
65°	1695	2318	2719
70°	1572	2376	2858
75°	1424	2458	2989
80°	1199	2465	2569
85°	918	1864	1864



TEST NUMBER: P843140

CATALOG NUMBER: 24CZ2-55HE-SQR-UNV-B40

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.0	3.0
10°-20°	428.7	8.7
20°-30°	651.2	13.3
30°-40°	792.1	16.1
40°-50°	843.3	17.2
50°-60°	803.2	16.4
60°-70°	671.7	13.7
70°-80°	447.9	9.1
80°-90°	123.9	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°	1228.9	25.0
0°-40°	2021.0	41.2
0°-60°	3667.5	74.7
0°-90°	4911.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4911.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1570	1570	1570	1570	1570	
5°	1570	1560	1568	1568	1568	149
15°	1495	1498	1524	1536	1541	422
25°	1361	1378	1419	1443	1456	626
35°	1179	1213	1275	1317	1336	738
45°	970	1022	1103	1164	1192	750
55°	746	811	910	989	1023	667
65°	508	582	694	780	814	501
75°	261	344	451	527	548	277
85°	57	105	115	114	115	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1569.7	1569.7	1569.7	1569.7	1569.7
2.5°	1576.2	1564.9	1569.7	1569.7	1563.4
5°	1569.7	1560.0	1568.2	1568.2	1568.2
7.5°	1558.5	1550.3	1563.4	1566.5	1566.5
10°	1540.6	1537.5	1553.7	1558.5	1560.0
12.5°	1521.2	1519.5	1542.3	1548.6	1553.7
15°	1495.1	1498.5	1524.4	1535.8	1540.6
17.5°	1467.7	1474.0	1503.3	1519.5	1524.4
20°	1435.2	1444.9	1479.1	1495.1	1505.0
22.5°	1399.6	1414.2	1449.8	1469.2	1480.6
25°	1360.6	1378.3	1419.0	1443.3	1456.3
27.5°	1318.5	1341.2	1388.2	1415.6	1428.7
30°	1273.0	1298.9	1350.9	1383.4	1399.6
32.5°	1226.0	1256.7	1313.6	1349.3	1368.6
35°	1179.0	1213.1	1274.7	1316.8	1336.2
37.5°	1132.0	1165.9	1234.2	1279.5	1303.9
40°	1078.4	1118.9	1192.0	1242.2	1266.6
42.5°	1026.6	1070.2	1148.2	1203.2	1229.3
45°	969.7	1021.7	1102.7	1164.4	1192.0
47.5°	917.8	969.7	1057.4	1122.3	1153.0
50°	861.1	916.2	1008.7	1080.1	1112.6
52.5°	805.9	862.8	960.0	1036.3	1068.7
55°	746.1	810.8	909.8	989.3	1023.2
57.5°	686.0	755.8	857.8	940.6	974.7
60°	627.6	698.9	805.9	888.8	924.4
62.5°	569.3	640.5	752.4	836.7	870.8
65°	507.5	582.1	694.0	780.0	814.1
67.5°	446.0	523.7	635.6	721.6	754.1
70°	381.0	463.9	575.8	660.1	692.5
72.5°	321.2	403.8	514.0	596.9	627.6
75°	261.1	343.7	450.8	527.1	548.2
77.5°	202.7	285.4	381.0	431.4	436.3
80°	147.5	225.5	303.3	317.8	316.1
82.5°	98.8	168.6	209.3	210.8	215.6
85°	56.7	105.4	115.1	113.6	115.1
87.5°	22.8	37.3	32.5	24.2	24.2
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)