

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: P475242

Luminaire Tested: **22CZ2-55VHE-SQR-UNV-L830-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475242
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-55VHE-SQR-UNV-L830-CD1-U
Description: 2'X2' TROFFER LED MODULE, VERY HIGH EFFICIENCY,SQUARE LENS
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5101.9 lumens
Efficiency: N/A
Efficacy: 132.5 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.31 / 1.37
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

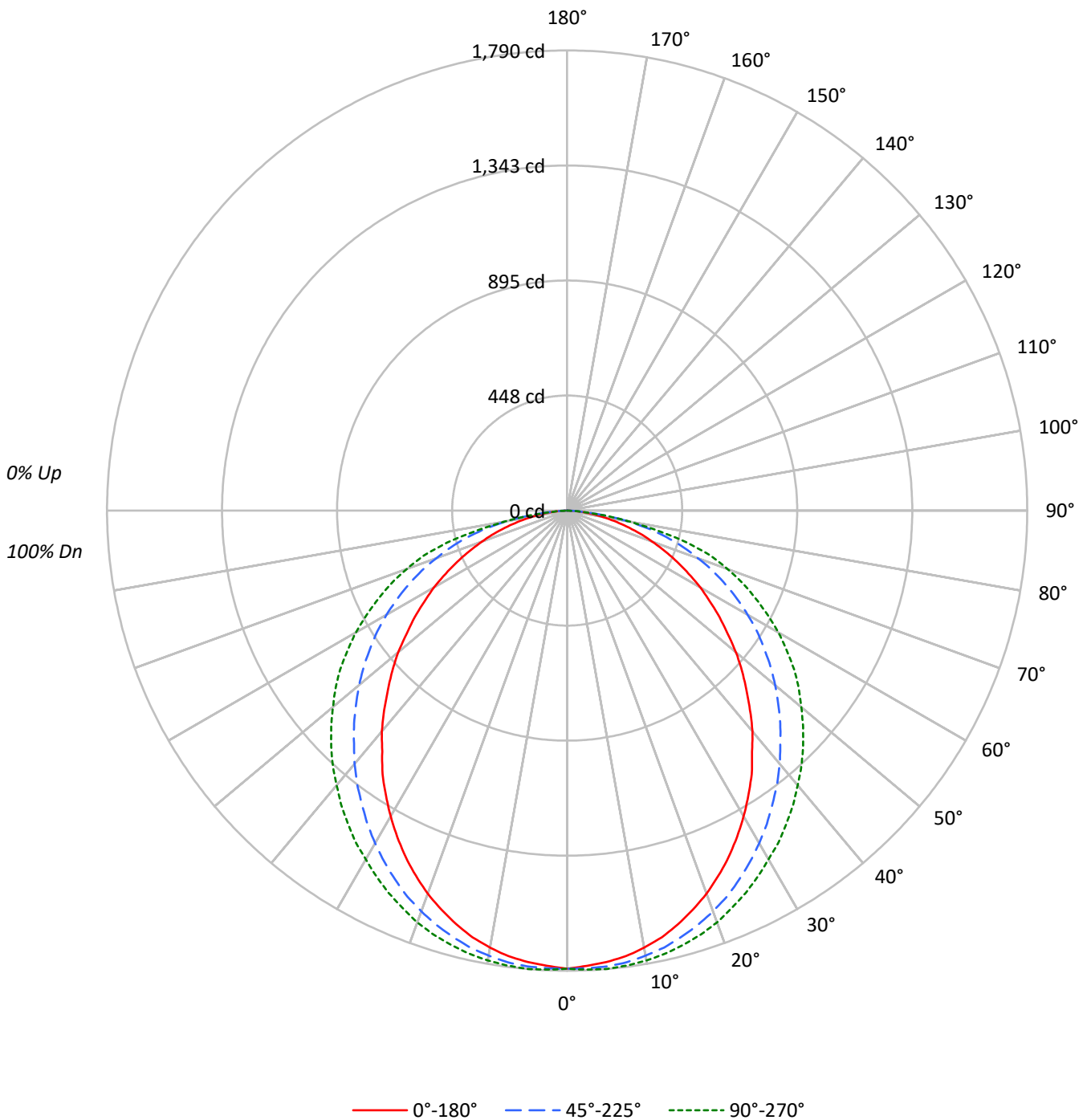
Input Watts (W): 38.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43
6	70	56	47	41	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°	4796	4796	4796
5°	4762	4807	4834
10°	4718	4804	4856
15°	4642	4783	4871
20°	4542	4751	4882
25°	4415	4702	4874
30°	4266	4643	4868
35°	4112	4574	4884
40°	3938	4517	4900
45°	3750	4460	4939
50°	3589	4420	4977
55°	3397	4385	5056
60°	3219	4366	5109
65°	3006	4332	5149
70°	2762	4267	5220
75°	2493	4154	5034
80°	2139	3679	3790
85°	1720	2167	1720



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.0	3.3
10°-20°	483.1	9.5
20°-30°	725.6	14.2
30°-40°	865.3	17.0
40°-50°	894.7	17.5
50°-60°	822.5	16.1
60°-70°	654.8	12.8
70°-80°	400.1	7.8
80°-90°	86.9	1.7
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°	1377.6	27.0
0°-40°	2242.9	44.0
0°-60°	3960.1	77.6
0°-90°	5101.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5101.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1782	1782	1782	1782	1782	
5°	1763	1768	1780	1787	1790	167
15°	1666	1685	1717	1741	1748	469
25°	1487	1523	1584	1627	1642	684
35°	1252	1305	1392	1465	1487	781
45°	986	1056	1172	1267	1298	762
55°	724	804	935	1041	1078	648
65°	472	552	680	775	809	468
75°	240	310	400	470	484	255
85°	56	68	70	61	56	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1782.1	1782.1	1782.1	1782.1	1782.1
2.5°	1772.5	1774.9	1782.1	1787.2	1787.2
5°	1762.8	1767.6	1779.7	1787.2	1789.6
7.5°	1748.4	1755.6	1772.5	1782.1	1784.8
10°	1726.7	1736.3	1758.0	1772.5	1777.3
12.5°	1699.9	1714.3	1741.1	1760.4	1765.2
15°	1666.1	1685.4	1716.7	1741.1	1748.4
17.5°	1627.2	1651.4	1690.2	1719.4	1729.1
20°	1586.0	1610.4	1658.9	1692.6	1704.7
22.5°	1537.7	1569.1	1624.8	1663.7	1673.3
25°	1486.8	1523.0	1583.6	1627.2	1641.7
27.5°	1431.1	1474.8	1540.2	1593.5	1605.5
30°	1373.0	1419.0	1494.1	1552.2	1566.7
32.5°	1312.4	1365.7	1445.6	1511.0	1530.5
35°	1251.8	1305.2	1392.3	1465.1	1486.8
37.5°	1181.6	1244.6	1341.6	1416.6	1443.2
40°	1121.1	1181.6	1285.9	1368.1	1394.9
42.5°	1053.3	1118.7	1227.7	1317.2	1348.8
45°	985.5	1055.7	1172.0	1266.6	1297.9
47.5°	922.5	992.7	1113.9	1213.3	1244.6
50°	857.2	929.8	1055.7	1157.5	1188.9
52.5°	787.0	866.8	997.6	1099.4	1135.8
55°	724.0	803.8	934.6	1041.2	1077.7
57.5°	658.6	740.9	876.7	978.3	1012.3
60°	598.1	677.9	811.3	910.5	949.3
62.5°	532.7	614.9	745.7	842.7	879.1
65°	472.1	552.2	680.3	774.9	808.7
67.5°	411.6	491.7	612.5	702.3	740.9
70°	351.0	431.1	542.3	629.7	663.4
72.5°	298.0	368.2	474.5	554.7	586.0
75°	239.8	310.0	399.5	469.7	484.2
77.5°	186.5	249.5	324.5	355.8	360.9
80°	138.0	186.5	237.4	244.6	244.6
82.5°	91.9	128.3	147.6	150.1	147.6
85°	55.7	67.8	70.2	60.6	55.7
87.5°	19.3	19.3	12.1	7.2	2.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)