

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: P475271

Luminaire Tested: **22CZ2-55VHE-SQR-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475271
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-L835-CD1-U
Description: 2'X2' TROFFER LED MODULE, VERY HIGH EFFICIENCY,SQUARE LENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5287.0 lumens
Efficiency: N/A
Efficacy: 137.3 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

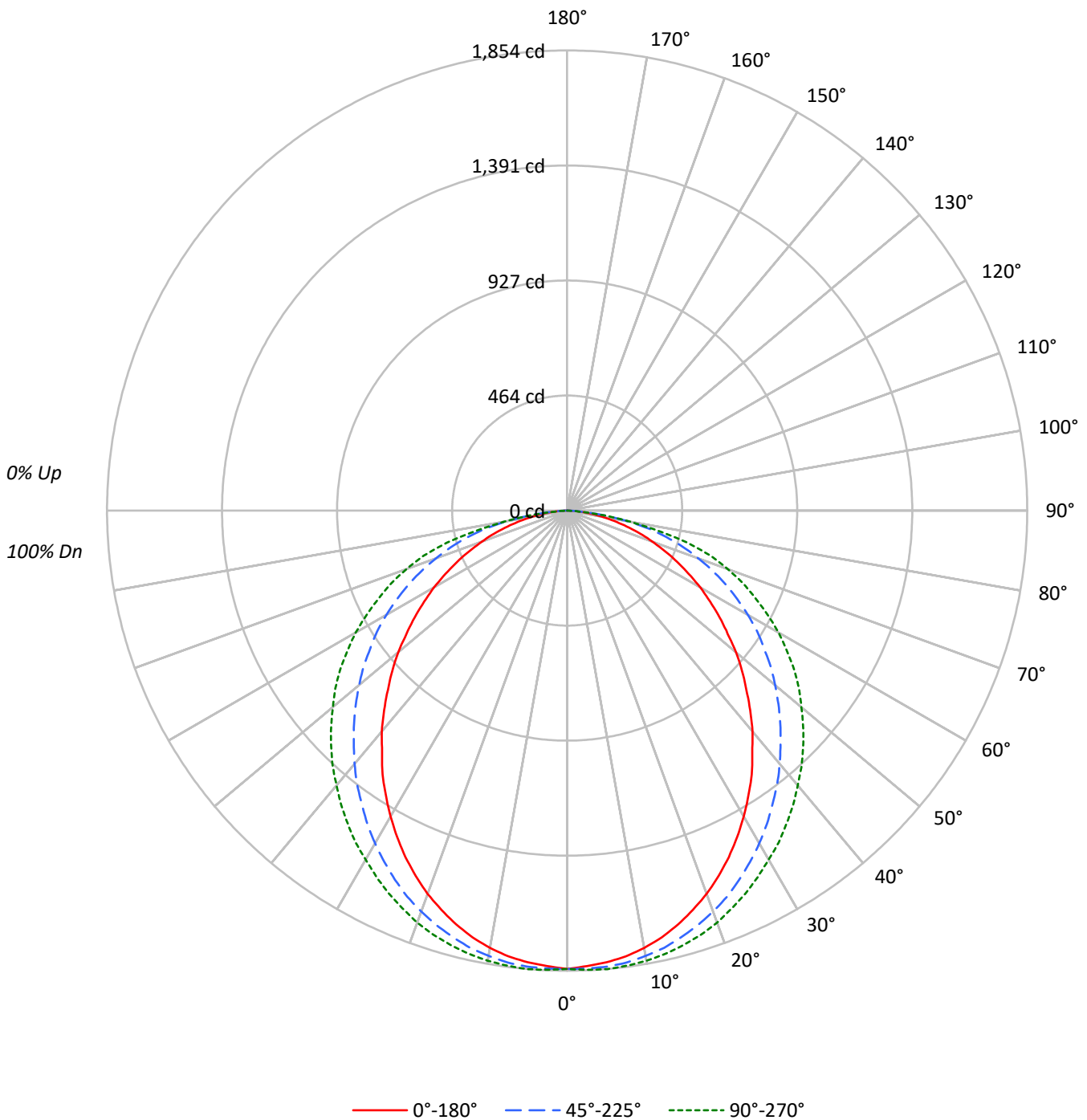
Input Watts (W): 38.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4970	4970	4970
5°	4935	4982	5009
10°	4889	4978	5033
15°	4810	4956	5048
20°	4706	4923	5059
25°	4575	4872	5051
30°	4421	4811	5045
35°	4262	4739	5062
40°	4081	4681	5078
45°	3887	4622	5119
50°	3719	4580	5158
55°	3520	4544	5240
60°	3335	4525	5295
65°	3115	4489	5336
70°	2862	4422	5409
75°	2584	4304	5216
80°	2216	3812	3928
85°	1785	2245	1785



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.1	3.3
10°-20°	500.6	9.5
20°-30°	751.9	14.2
30°-40°	896.7	17.0
40°-50°	927.1	17.5
50°-60°	852.4	16.1
60°-70°	678.5	12.8
70°-80°	414.6	7.8
80°-90°	90.1	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°	1427.6	27.0
0°-40°	2324.3	44.0
0°-60°	4103.7	77.6
0°-90°	5287.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5287.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1847	1847	1847	1847	1847	
5°	1827	1832	1844	1852	1854	173
15°	1726	1746	1779	1804	1812	486
25°	1541	1578	1641	1686	1701	709
35°	1297	1352	1443	1518	1541	809
45°	1021	1094	1214	1312	1345	790
55°	750	833	968	1079	1117	671
65°	489	572	705	803	838	485
75°	248	321	414	487	502	265
85°	58	70	73	63	58	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1846.8	1846.8	1846.8	1846.8	1846.8
2.5°	1836.8	1839.3	1846.8	1852.0	1852.0
5°	1826.8	1831.8	1844.3	1852.0	1854.5
7.5°	1811.8	1819.3	1836.8	1846.8	1849.5
10°	1789.3	1799.3	1821.8	1836.8	1841.8
12.5°	1761.5	1776.5	1804.3	1824.3	1829.3
15°	1726.5	1746.5	1779.0	1804.3	1811.8
17.5°	1686.3	1711.3	1751.5	1781.8	1791.8
20°	1643.5	1668.8	1719.0	1754.0	1766.5
22.5°	1593.5	1626.0	1683.8	1724.0	1734.0
25°	1540.8	1578.3	1641.0	1686.3	1701.3
27.5°	1483.0	1528.3	1596.0	1651.3	1663.8
30°	1422.8	1470.5	1548.3	1608.5	1623.5
32.5°	1360.0	1415.3	1498.0	1565.8	1586.0
35°	1297.3	1352.5	1442.7	1518.3	1540.8
37.5°	1224.5	1289.8	1390.3	1468.0	1495.5
40°	1161.8	1224.5	1332.5	1417.8	1445.5
42.5°	1091.5	1159.3	1272.3	1365.0	1397.8
45°	1021.3	1094.0	1214.5	1312.5	1345.0
47.5°	956.0	1028.8	1154.3	1257.3	1289.8
50°	888.3	963.5	1094.0	1199.5	1232.0
52.5°	815.5	898.2	1033.7	1139.3	1177.0
55°	750.3	833.0	968.5	1079.0	1116.8
57.5°	682.5	767.7	908.5	1013.8	1049.0
60°	619.7	702.5	840.8	943.5	983.8
62.5°	552.0	637.2	772.7	873.3	911.0
65°	489.2	572.3	705.0	803.0	838.0
67.5°	426.5	509.5	634.7	727.8	767.7
70°	363.7	446.8	562.0	652.5	687.5
72.5°	308.8	381.5	491.7	574.8	607.3
75°	248.5	321.3	414.0	486.7	501.7
77.5°	193.3	258.5	336.3	368.7	374.0
80°	143.0	193.3	246.0	253.5	253.5
82.5°	95.2	133.0	153.0	155.5	153.0
85°	57.8	70.2	72.7	62.8	57.8
87.5°	20.0	20.0	12.5	7.5	2.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)