

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: P475076

Luminaire Tested: **22CZ2-95VHE-RDP-UNV-L840-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475076
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-95VHE-RDP-UNV-L840-CD1-U
Description: 2'X2' TROFFER LED MODULE, VERY HIGH EFFICIENCY,SMOOTH LENS W/ RDP
INSERT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6487.5 lumens
Efficiency: N/A
Efficacy: 91.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

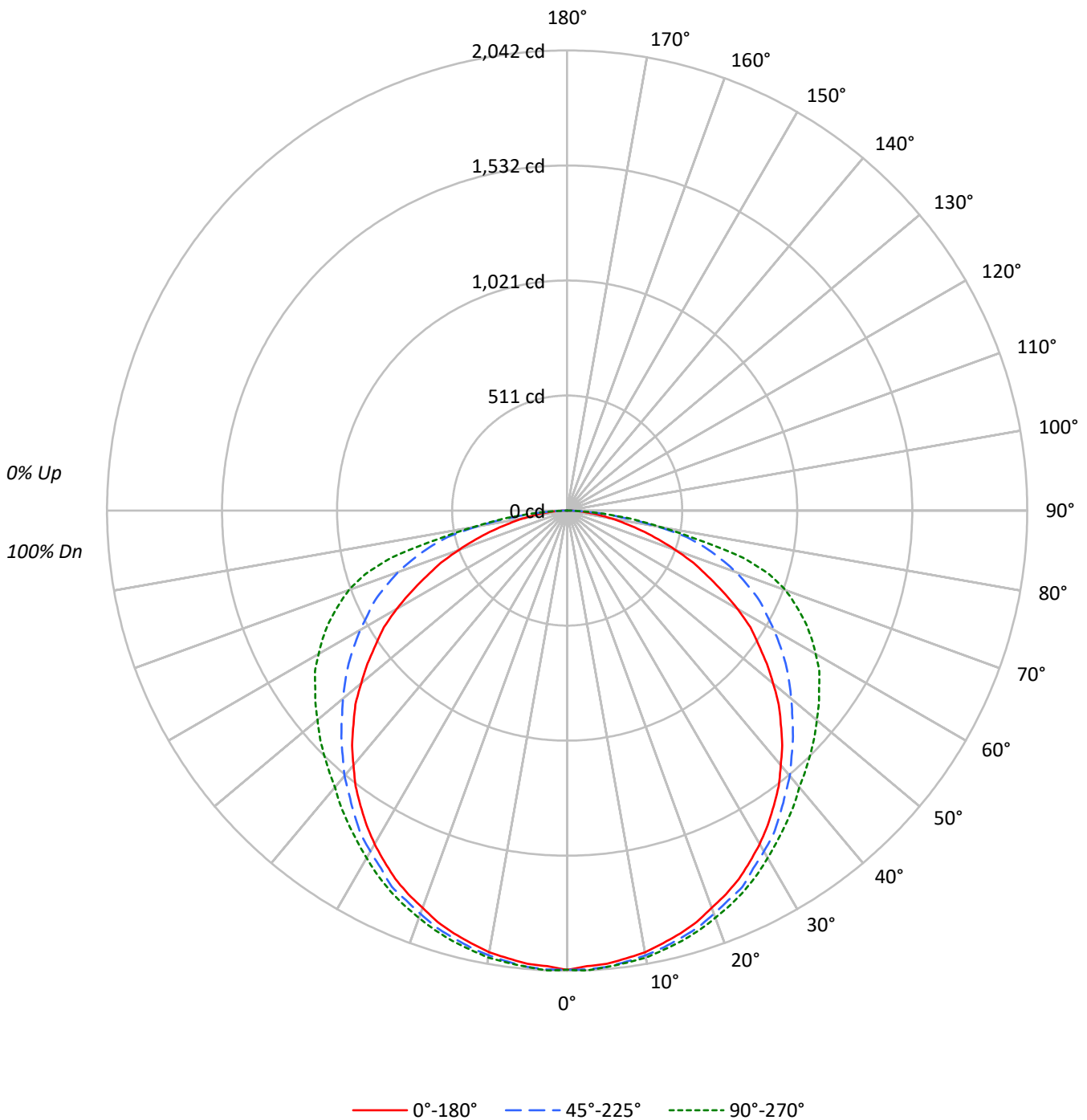
Input Watts (W): 71.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	103	98	94	105	100	96	92	96	92	89	92	89	86	88	86	84	82
2	97	88	81	75	95	86	80	74	83	77	72	80	75	71	76	72	69	67
3	88	77	68	61	86	75	67	61	72	65	60	70	64	59	67	62	58	55
4	80	68	59	51	78	66	58	51	64	56	50	61	55	50	59	54	49	47
5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	35
7	63	49	40	33	61	48	39	33	47	39	33	45	38	33	44	37	33	31
8	59	45	36	30	57	44	35	30	43	35	29	41	34	29	40	34	29	27
9	55	41	32	27	53	40	32	27	39	32	26	38	31	26	37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5483	5483	5483
5°	5453	5492	5492
10°	5437	5477	5503
15°	5411	5464	5504
20°	5371	5452	5508
25°	5356	5470	5527
30°	5309	5427	5532
35°	5252	5409	5566
40°	5181	5397	5632
45°	5104	5394	5811
50°	4995	5434	6053
55°	4859	5553	6403
60°	4701	5702	6858
65°	4375	5988	7416
70°	4018	6272	8111
75°	3526	6597	8386
80°	3036	6284	6585
85°	2649	4570	5008



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.8	3.0
10°-20°	553.5	8.5
20°-30°	844.4	13.0
30°-40°	1031.0	15.9
40°-50°	1102.4	17.0
50°-60°	1064.1	16.4
60°-70°	916.0	14.1
70°-80°	619.8	9.6
80°-90°	163.6	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°	1590.6	24.5
0°-40°	2621.7	40.4
0°-60°	4788.1	73.8
0°-90°	6487.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6487.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2038	2038	2038	2038	2038	
5°	2019	2024	2033	2033	2033	192
15°	1942	1947	1961	1971	1976	548
25°	1804	1813	1842	1852	1861	830
35°	1599	1613	1646	1680	1694	1000
45°	1341	1365	1417	1489	1527	1035
55°	1036	1069	1184	1303	1365	928
65°	687	754	940	1088	1165	683
75°	339	449	634	764	807	364
85°	86	120	148	153	162	97
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2037.7	2037.7	2037.7	2037.7	2037.7
2.5°	2023.5	2028.2	2037.7	2037.7	2042.5
5°	2018.7	2023.5	2033.0	2033.0	2033.0
7.5°	2004.5	2009.3	2018.7	2023.5	2023.5
10°	1989.8	1995.0	2004.5	2009.3	2014.0
12.5°	1966.1	1970.8	1985.1	1995.0	1995.0
15°	1942.4	1947.1	1961.4	1970.8	1975.6
17.5°	1913.5	1923.4	1937.7	1947.1	1951.9
20°	1875.5	1885.0	1904.0	1918.7	1923.4
22.5°	1842.3	1851.8	1870.8	1885.0	1894.5
25°	1803.9	1813.4	1842.3	1851.8	1861.3
27.5°	1756.0	1766.0	1789.7	1808.7	1822.9
30°	1708.6	1718.1	1746.5	1770.7	1780.2
32.5°	1656.0	1670.2	1703.9	1722.8	1737.1
35°	1598.6	1612.8	1646.5	1679.7	1694.4
37.5°	1541.7	1555.9	1589.1	1632.3	1651.2
40°	1474.8	1493.8	1536.5	1593.8	1603.3
42.5°	1412.7	1436.4	1474.8	1541.7	1565.4
45°	1341.1	1364.8	1417.4	1489.0	1527.0
47.5°	1274.2	1297.9	1355.3	1441.1	1489.0
50°	1193.1	1226.3	1297.9	1398.5	1445.9
52.5°	1116.8	1145.2	1241.0	1350.6	1408.0
55°	1035.7	1068.9	1183.6	1302.7	1364.8
57.5°	964.1	992.5	1121.5	1255.3	1326.9
60°	873.5	911.4	1059.4	1202.6	1274.2
62.5°	777.7	835.1	997.3	1145.2	1221.6
65°	687.1	754.0	940.4	1087.9	1164.7
67.5°	606.1	677.7	868.8	1026.2	1097.8
70°	510.7	601.3	797.2	949.9	1030.9
72.5°	424.9	525.0	716.1	868.8	940.4
75°	339.1	448.6	634.5	763.5	806.6
77.5°	262.2	367.5	543.9	582.3	587.1
80°	195.9	291.2	405.5	410.2	424.9
82.5°	133.7	205.3	262.2	286.4	291.2
85°	85.8	119.5	148.0	152.7	162.2
87.5°	38.4	43.2	52.6	47.9	47.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)