

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: P475047

Luminaire Tested: **22CZ2-95VHE-RDP-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475047
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-L835-CD1-U
Description: 2'X2' TROFFER LED MODULE, VERY HIGH EFFICIENCY,SMOOTH LENS W/ RDP
INSERT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6366.5 lumens
Efficiency: N/A
Efficacy: 89.4 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

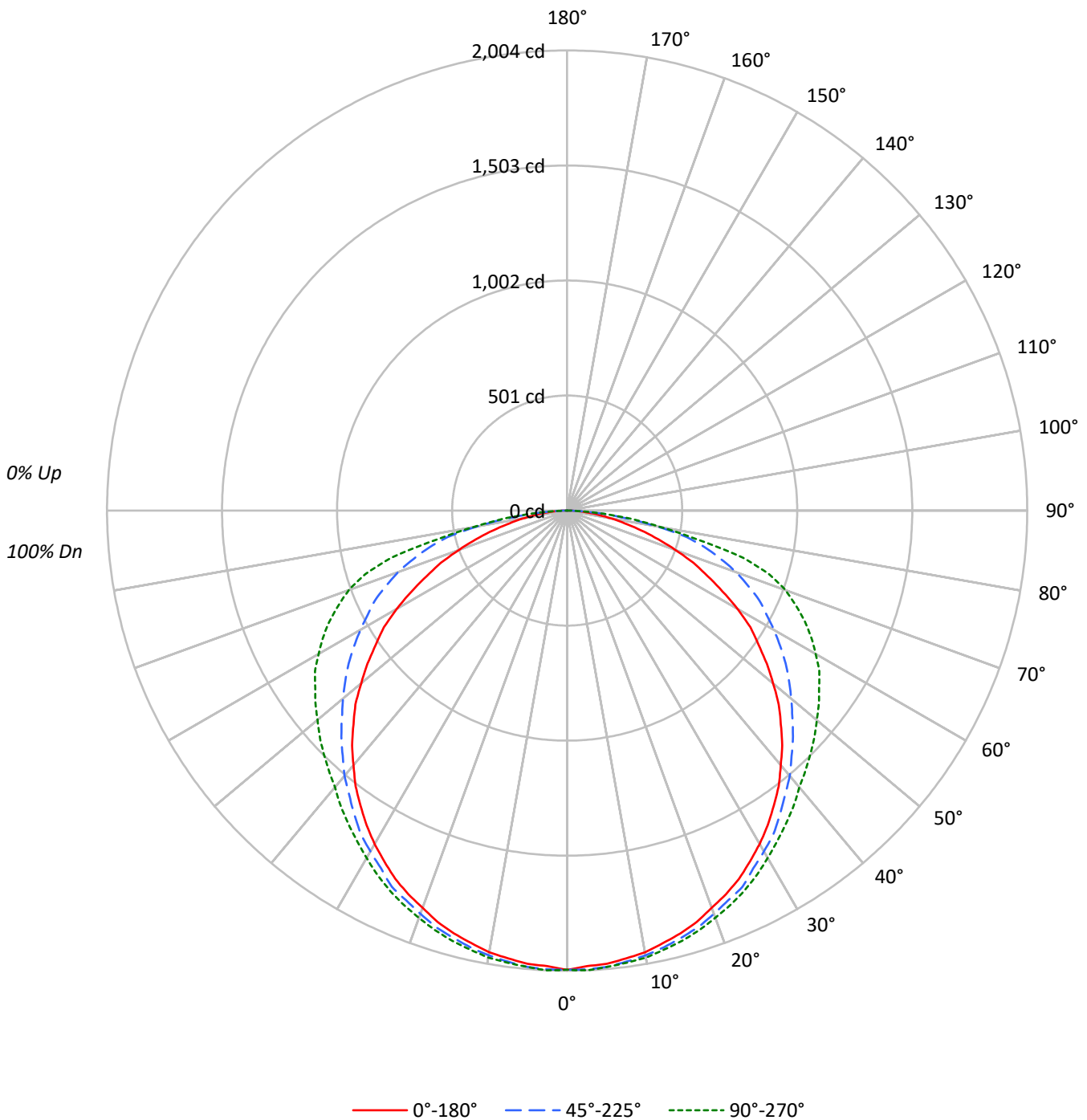
Input Watts (W): 71.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5381	5381	5381
5°	5351	5389	5389
10°	5336	5375	5401
15°	5310	5362	5401
20°	5271	5351	5405
25°	5256	5368	5423
30°	5210	5326	5428
35°	5154	5308	5462
40°	5084	5297	5527
45°	5009	5294	5703
50°	4902	5332	5940
55°	4769	5450	6284
60°	4613	5595	6730
65°	4294	5876	7278
70°	3943	6155	7960
75°	3459	6474	8230
80°	2978	6166	6462
85°	2600	4483	4915



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.2	3.0
10°-20°	543.1	8.5
20°-30°	828.7	13.0
30°-40°	1011.8	15.9
40°-50°	1081.8	17.0
50°-60°	1044.2	16.4
60°-70°	898.9	14.1
70°-80°	608.2	9.6
80°-90°	160.5	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°	1561.0	24.5
0°-40°	2572.8	40.4
0°-60°	4698.9	73.8
0°-90°	6366.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6366.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2000	2000	2000	2000	2000	
5°	1981	1986	1995	1995	1995	188
15°	1906	1911	1925	1934	1939	538
25°	1770	1780	1808	1817	1827	815
35°	1569	1583	1616	1648	1663	982
45°	1316	1339	1391	1461	1498	1016
55°	1016	1049	1162	1278	1339	911
65°	674	740	923	1068	1143	671
75°	333	440	623	749	792	357
85°	84	117	145	150	159	95
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1999.7	1999.7	1999.7	1999.7	1999.7
2.5°	1985.8	1990.4	1999.7	1999.7	2004.4
5°	1981.1	1985.8	1995.1	1995.1	1995.1
7.5°	1967.1	1971.8	1981.1	1985.8	1985.8
10°	1952.7	1957.8	1967.1	1971.8	1976.5
12.5°	1929.4	1934.1	1948.1	1957.8	1957.8
15°	1906.2	1910.8	1924.8	1934.1	1938.8
17.5°	1877.8	1887.6	1901.5	1910.8	1915.5
20°	1840.6	1849.9	1868.5	1882.9	1887.6
22.5°	1808.0	1817.3	1835.9	1849.9	1859.2
25°	1770.3	1779.6	1808.0	1817.3	1826.6
27.5°	1723.3	1733.1	1756.3	1774.9	1788.9
30°	1676.7	1686.1	1714.0	1737.7	1747.0
32.5°	1625.1	1639.1	1672.1	1690.7	1704.7
35°	1568.8	1582.7	1615.8	1648.4	1662.8
37.5°	1512.9	1526.9	1559.5	1601.8	1620.4
40°	1447.3	1465.9	1507.8	1564.1	1573.4
42.5°	1386.4	1409.6	1447.3	1512.9	1536.2
45°	1316.1	1339.4	1391.0	1461.3	1498.5
47.5°	1250.5	1273.7	1330.0	1414.3	1461.3
50°	1170.9	1203.5	1273.7	1372.4	1418.9
52.5°	1096.0	1123.9	1217.9	1325.4	1381.7
55°	1016.4	1049.0	1161.6	1278.4	1339.4
57.5°	946.1	974.0	1100.6	1231.8	1302.1
60°	857.2	894.5	1039.6	1180.2	1250.5
62.5°	763.2	819.5	978.7	1123.9	1198.8
65°	674.3	739.9	922.8	1067.6	1143.0
67.5°	594.8	665.0	852.6	1007.1	1077.3
70°	501.2	590.1	782.3	932.1	1011.7
72.5°	417.0	515.2	702.7	852.6	922.8
75°	332.7	440.2	622.7	749.3	791.6
77.5°	257.4	360.7	533.8	571.5	576.1
80°	192.2	285.7	397.9	402.6	417.0
82.5°	131.2	201.5	257.4	281.1	285.7
85°	84.2	117.3	145.2	149.9	159.2
87.5°	37.7	42.3	51.7	47.0	47.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)