

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: P475018

Luminaire Tested: **22CZ2-95VHE-RDP-UNV-L830-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P475018  
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-L830-CD1-U  
Description: 2'X2' TROFFER LED MODULE, VERY HIGH EFFICIENCY,SMOOTH LENS W/ RDP  
INSERT  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6143.6 lumens  
Efficiency: N/A  
Efficacy: 86.3 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

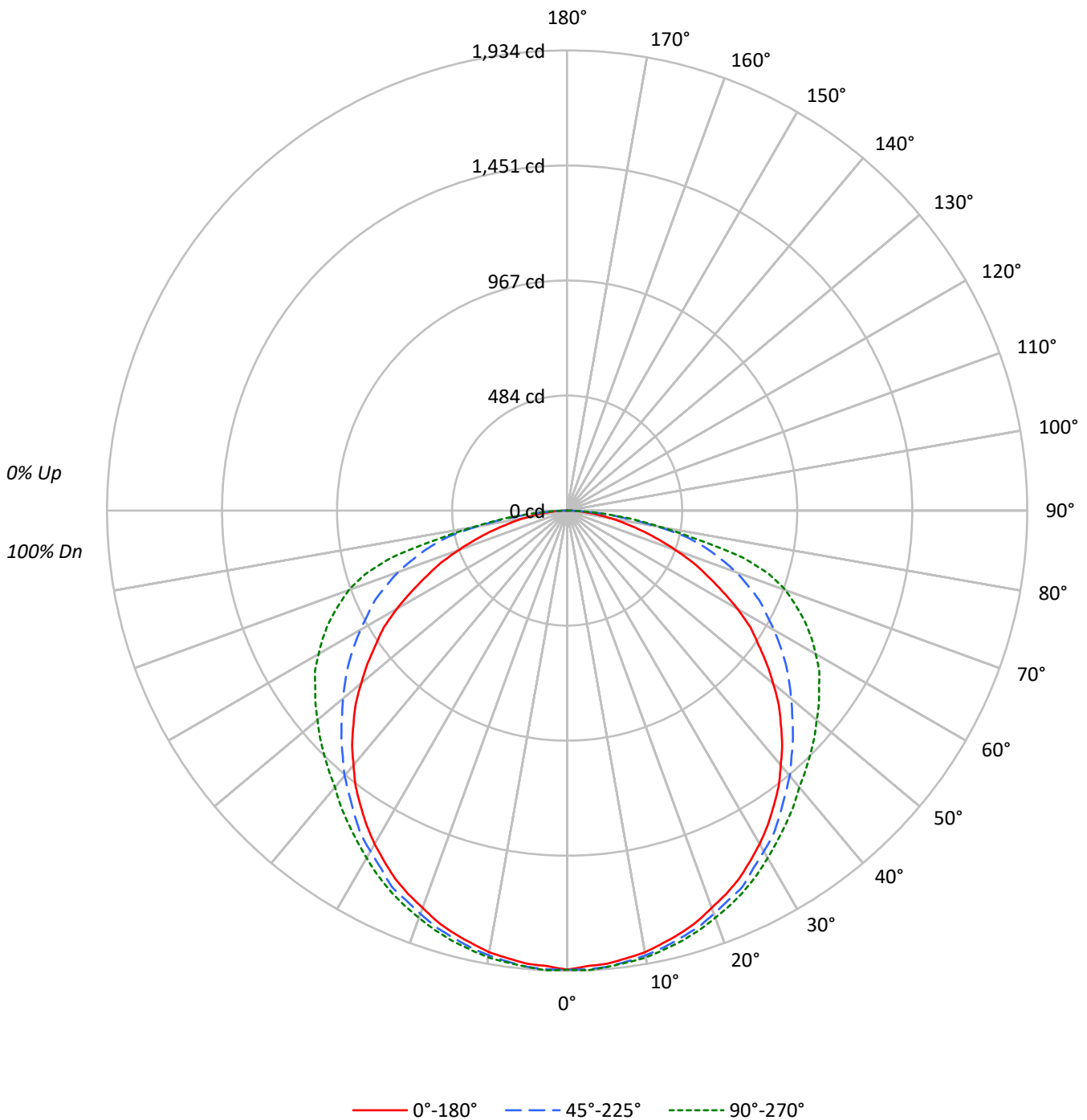
Input Watts (W): 71.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	5193	5193	5193
5°	5164	5200	5200
10°	5149	5187	5212
15°	5125	5175	5212
20°	5086	5164	5216
25°	5072	5180	5234
30°	5028	5139	5239
35°	4973	5122	5271
40°	4906	5111	5334
45°	4833	5108	5503
50°	4730	5146	5732
55°	4601	5259	6064
60°	4452	5400	6494
65°	4143	5670	7023
70°	3806	5939	7681
75°	3339	6248	7942
80°	2875	5951	6236
85°	2510	4326	4742



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	182.5	3.0
10°-20°	524.1	8.5
20°-30°	799.7	13.0
30°-40°	976.4	15.9
40°-50°	1044.0	17.0
50°-60°	1007.7	16.4
60°-70°	867.4	14.1
70°-80°	586.9	9.6
80°-90°	154.9	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°	1506.4	24.5
0°-40°	2482.7	40.4
0°-60°	4534.4	73.8
0°-90°	6143.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6143.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1930	1930	1930	1930	1930	
5°	1912	1916	1925	1925	1925	182
15°	1840	1844	1857	1866	1871	519
25°	1708	1717	1745	1754	1763	786
35°	1514	1527	1559	1591	1605	947
45°	1270	1292	1342	1410	1446	980
55°	981	1012	1121	1234	1292	879
65°	651	714	890	1030	1103	647
75°	321	425	601	723	764	344
85°	81	113	140	145	154	92
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1929.7	1929.7	1929.7	1929.7	1929.7
2.5°	1916.3	1920.7	1929.7	1929.7	1934.2
5°	1911.8	1916.3	1925.2	1925.2	1925.2
7.5°	1898.3	1902.8	1911.8	1916.3	1916.3
10°	1884.4	1889.3	1898.3	1902.8	1907.3
12.5°	1861.9	1866.4	1879.9	1889.3	1889.3
15°	1839.5	1844.0	1857.4	1866.4	1870.9
17.5°	1812.1	1821.5	1835.0	1844.0	1848.4
20°	1776.1	1785.1	1803.1	1817.0	1821.5
22.5°	1744.7	1753.7	1771.7	1785.1	1794.1
25°	1708.3	1717.3	1744.7	1753.7	1762.7
27.5°	1663.0	1672.4	1694.9	1712.8	1726.3
30°	1618.1	1627.0	1654.0	1676.9	1685.9
32.5°	1568.2	1581.7	1613.6	1631.5	1645.0
35°	1513.9	1527.3	1559.2	1590.7	1604.6
37.5°	1460.0	1473.5	1504.9	1545.8	1563.7
40°	1396.7	1414.6	1455.0	1509.4	1518.4
42.5°	1337.8	1360.3	1396.7	1460.0	1482.4
45°	1270.0	1292.5	1342.3	1410.1	1446.1
47.5°	1206.7	1229.2	1283.5	1364.8	1410.1
50°	1129.9	1161.3	1229.2	1324.4	1369.3
52.5°	1057.6	1084.5	1175.3	1279.0	1333.3
55°	980.8	1012.2	1120.9	1233.6	1292.5
57.5°	913.0	939.9	1062.1	1188.7	1256.5
60°	827.2	863.1	1003.3	1138.9	1206.7
62.5°	736.5	790.8	944.4	1084.5	1156.8
65°	650.7	714.0	890.5	1030.2	1103.0
67.5°	573.9	641.7	822.7	971.8	1039.6
70°	483.7	569.4	754.9	899.5	976.3
72.5°	402.4	497.1	678.1	822.7	890.5
75°	321.1	424.8	600.9	723.0	763.9
77.5°	248.3	348.0	515.1	551.5	556.0
80°	185.5	275.7	384.0	388.5	402.4
82.5°	126.6	194.5	248.3	271.2	275.7
85°	81.3	113.2	140.1	144.6	153.6
87.5°	36.4	40.9	49.8	45.4	45.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)