

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: P474243

Luminaire Tested: **24CZ2-95VHE-RDP-UNV-L835-CD1-U**

Issue Date: 01/28/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P474243  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 01/28/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CZ2-95VHE-RDP-UNV-L835-CD1-U  
Description: 2'X4' 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: 6393.9 lumens  
Efficiency: N/A  
Efficacy: 94.6 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

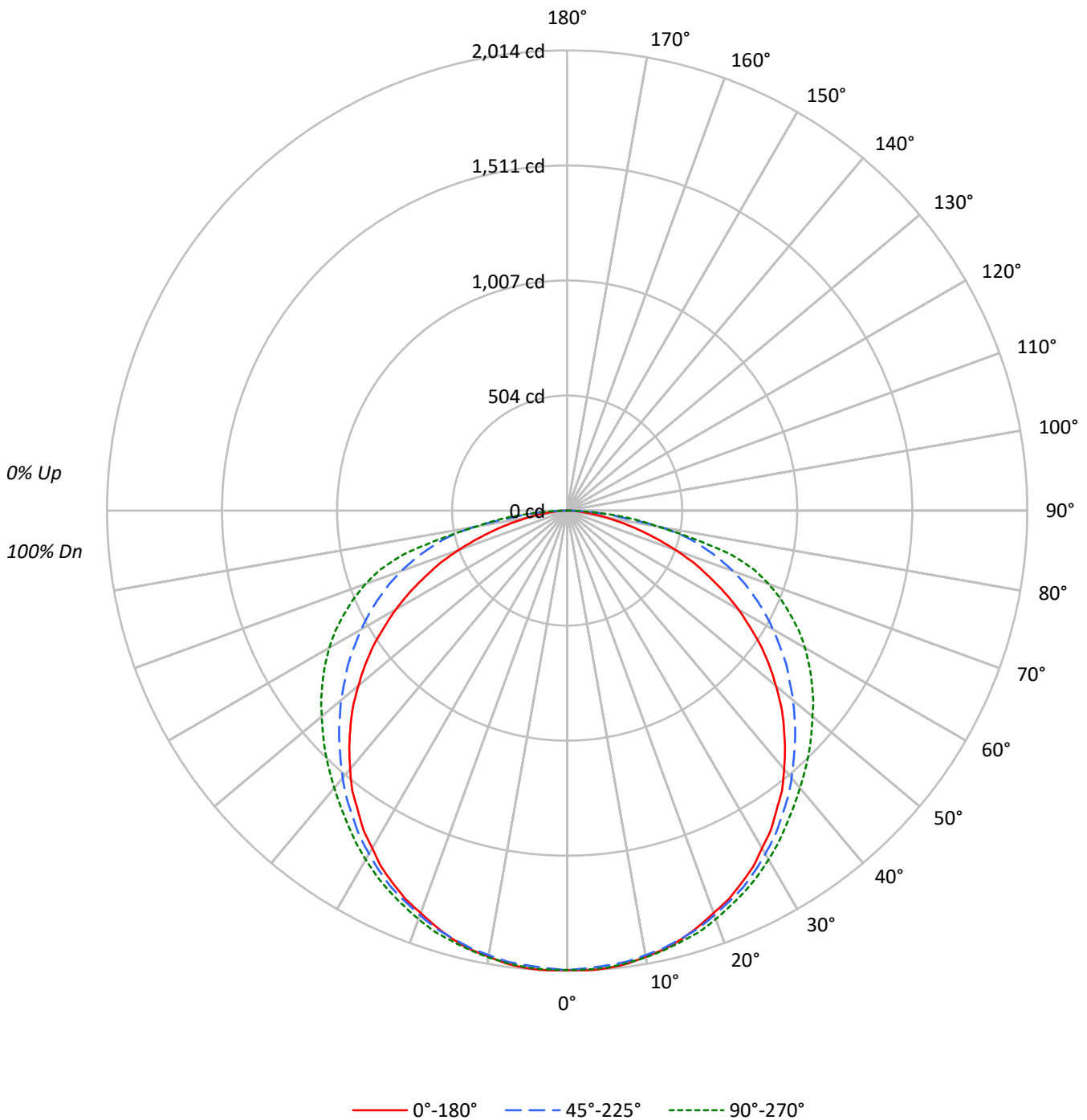
Input Watts (W): 67.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	93	89	92	89	87	88	86	84	82
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67
3	88	77	68	62	86	76	67	61	72	66	60	70	64	59	67	62	58	56
4	81	68	59	52	78	67	58	51	64	57	51	62	55	50	59	54	49	47
5	74	60	51	44	72	59	51	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	45	38	51	44	38	50	43	37	48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29	27
9	55	41	33	27	53	40	32	27	39	32	27	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°	2706	2706	2706
5°	2716	2699	2712
10°	2708	2700	2713
15°	2704	2699	2717
20°	2684	2697	2725
25°	2674	2703	2731
30°	2651	2695	2740
35°	2625	2688	2750
40°	2596	2685	2785
45°	2553	2686	2848
50°	2496	2702	2934
55°	2433	2745	3065
60°	2330	2799	3235
65°	2181	2897	3433
70°	1983	3032	3692
75°	1681	3199	3858
80°	1327	3219	3120
85°	980	2450	2743



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	190.7	3.0
10°-20°	548.9	8.6
20°-30°	839.4	13.1
30°-40°	1026.1	16.0
40°-50°	1093.7	17.1
50°-60°	1045.7	16.4
60°-70°	885.8	13.9
70°-80°	595.4	9.3
80°-90°	168.0	2.6
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°	1579.1	24.7
0°-40°	2605.2	40.7
0°-60°	4744.7	74.2
0°-90°	6393.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6393.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2011	2011	2011	2011	2011	
5°	2011	2008	1998	2008	2008	191
15°	1941	1941	1938	1954	1950	547
25°	1801	1808	1820	1836	1839	830
35°	1598	1611	1636	1668	1674	1001
45°	1342	1364	1411	1472	1497	1035
55°	1037	1075	1170	1262	1307	924
65°	685	755	910	1031	1078	680
75°	323	441	615	720	742	346
85°	64	130	159	171	178	79
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2010.8	2010.8	2010.8	2010.8	2010.8
2.5°	2014.0	2014.0	2004.5	2010.8	2010.8
5°	2010.8	2007.6	1998.1	2007.6	2007.6
7.5°	2001.3	1998.1	1991.8	2001.3	1998.1
10°	1982.2	1982.2	1975.9	1985.4	1985.4
12.5°	1966.4	1963.2	1960.0	1972.7	1969.5
15°	1941.0	1941.0	1937.8	1953.7	1950.5
17.5°	1909.3	1912.4	1915.6	1928.3	1931.5
20°	1874.4	1880.7	1883.9	1902.9	1902.9
22.5°	1842.6	1845.8	1852.1	1871.2	1871.2
25°	1801.4	1807.7	1820.4	1836.3	1839.4
27.5°	1760.1	1763.3	1779.2	1801.4	1804.5
30°	1706.2	1715.7	1734.7	1760.1	1763.3
32.5°	1658.6	1668.1	1690.3	1715.7	1722.0
35°	1598.3	1611.0	1636.4	1668.1	1674.4
37.5°	1544.4	1553.9	1585.6	1620.5	1630.0
40°	1478.0	1496.8	1528.5	1569.7	1585.6
42.5°	1411.4	1430.4	1468.5	1522.1	1541.2
45°	1341.6	1363.8	1411.4	1471.7	1496.8
47.5°	1271.8	1297.2	1351.1	1420.9	1449.5
50°	1192.5	1224.2	1290.8	1370.1	1401.9
52.5°	1116.3	1154.4	1227.4	1316.2	1357.5
55°	1037.0	1075.0	1170.2	1262.3	1306.7
57.5°	948.1	998.9	1103.6	1208.3	1255.9
60°	865.9	913.2	1040.1	1154.4	1202.0
62.5°	777.1	840.6	976.7	1097.3	1144.9
65°	685.1	754.9	910.0	1030.6	1078.2
67.5°	602.6	678.7	843.7	964.0	1011.6
70°	504.2	599.4	770.7	891.0	938.6
72.5°	412.2	516.9	694.6	812.0	856.4
75°	323.3	440.7	615.3	720.0	742.2
77.5°	241.2	364.6	532.8	577.2	561.3
80°	171.3	291.9	415.4	393.1	402.7
82.5°	111.1	222.1	257.0	291.9	301.1
85°	63.5	130.1	158.7	171.3	177.7
87.5°	28.6	47.6	63.5	63.5	60.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)