

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: P474216

Luminaire Tested: **24CZ2-55-RDP-UNV-L835-CD1-U**

Issue Date: 01/28/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P474216  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 01/28/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CZ2-55-RDP-UNV-L835-CD1-U  
Description: 2'X4' TROFFER LED MODULE, SMOOTH LENS W/ RDP INSERT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3654.2 lumens  
Efficiency: N/A  
Efficacy: 85.0 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

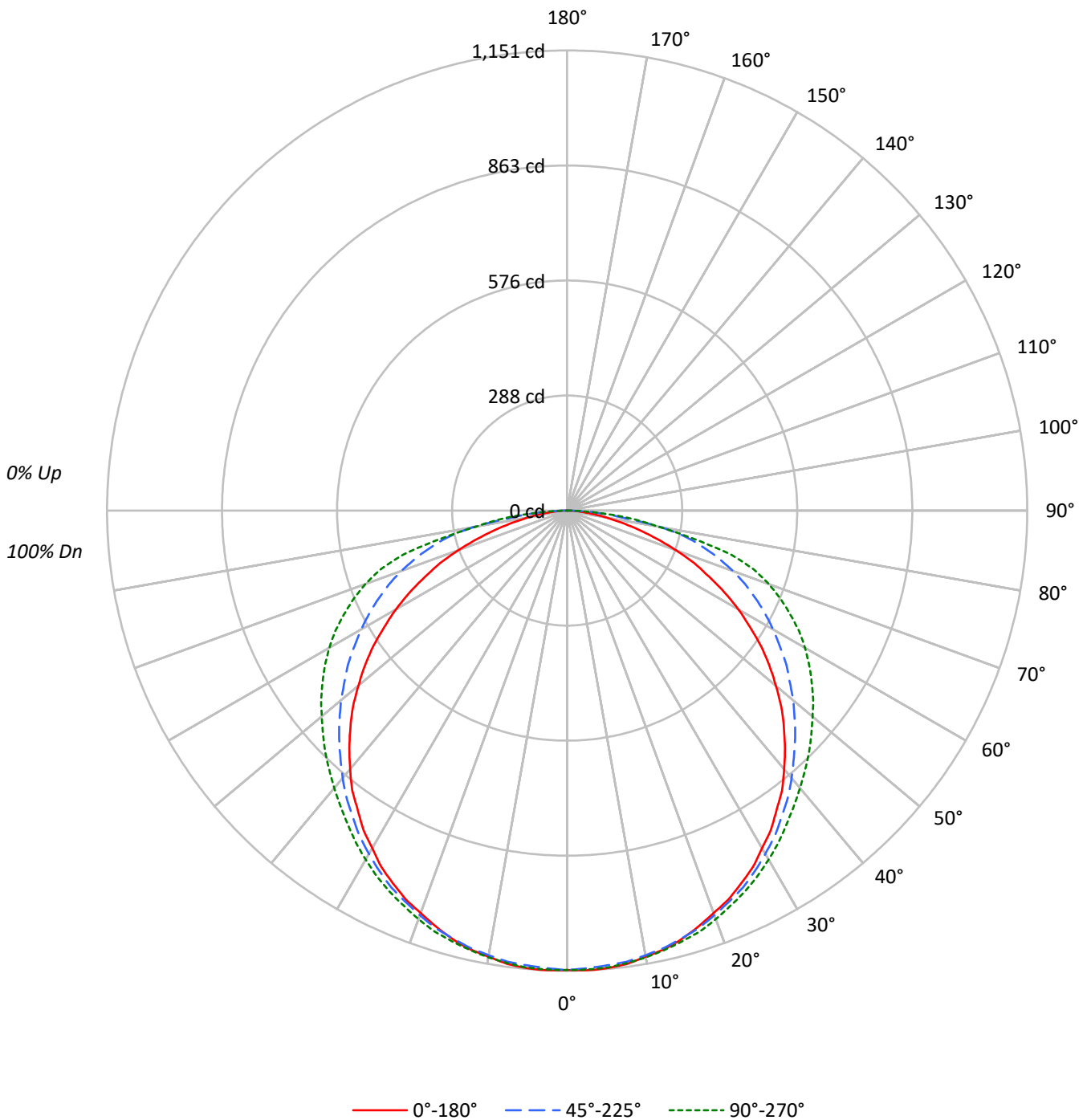
Input Watts (W): 43  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P474216

CATALOG NUMBER: 24CZ2-55-RDP-UNV-L835-CD1-U

### Luminous Intensity Polar Plot





TEST NUMBER: P474216

CATALOG NUMBER: 24CZ2-55-RDP-UNV-L835-CD1-U

**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°	1546	1546	1546
5°	1552	1542	1550
10°	1548	1543	1550
15°	1545	1543	1553
20°	1534	1542	1557
25°	1528	1545	1561
30°	1515	1540	1566
35°	1500	1536	1572
40°	1484	1534	1592
45°	1459	1535	1628
50°	1427	1544	1677
55°	1390	1569	1752
60°	1332	1600	1848
65°	1246	1656	1962
70°	1134	1733	2110
75°	961	1828	2205
80°	759	1839	1783
85°	560	1400	1568



TEST NUMBER: P474216

CATALOG NUMBER: 24CZ2-55-RDP-UNV-L835-CD1-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	109.0	3.0
10°-20°	313.7	8.6
20°-30°	479.7	13.1
30°-40°	586.5	16.0
40°-50°	625.1	17.1
50°-60°	597.6	16.4
60°-70°	506.3	13.9
70°-80°	340.3	9.3
80°-90°	96.0	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°	902.5	24.7
0°-40°	1488.9	40.7
0°-60°	2711.7	74.2
0°-90°	3654.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3654.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1149	1149	1149	1149	1149	
5°	1149	1147	1142	1147	1147	109
15°	1109	1109	1108	1117	1115	313
25°	1030	1033	1040	1050	1051	474
35°	914	921	935	953	957	572
45°	767	779	807	841	855	591
55°	593	614	669	721	747	528
65°	392	431	520	589	616	389
75°	185	252	352	412	424	198
85°	36	74	91	98	102	45
90°	0	0	0	0	0	



TEST NUMBER: P474216

CATALOG NUMBER: 24CZ2-55-RDP-UNV-L835-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1149.2	1149.2	1149.2	1149.2	1149.2
2.5°	1151.0	1151.0	1145.6	1149.2	1149.2
5°	1149.2	1147.4	1142.0	1147.4	1147.4
7.5°	1143.8	1142.0	1138.3	1143.8	1142.0
10°	1132.9	1132.9	1129.3	1134.7	1134.7
12.5°	1123.8	1122.0	1120.2	1127.4	1125.6
15°	1109.3	1109.3	1107.5	1116.6	1114.8
17.5°	1091.2	1093.0	1094.8	1102.1	1103.9
20°	1071.2	1074.9	1076.7	1087.5	1087.5
22.5°	1053.1	1054.9	1058.5	1069.4	1069.4
25°	1029.5	1033.1	1040.4	1049.5	1051.3
27.5°	1005.9	1007.8	1016.8	1029.5	1031.3
30°	975.1	980.6	991.4	1005.9	1007.8
32.5°	947.9	953.4	966.0	980.6	984.2
35°	913.5	920.7	935.2	953.4	957.0
37.5°	882.6	888.1	906.2	926.1	931.6
40°	844.7	855.4	873.6	897.1	906.2
42.5°	806.6	817.5	839.3	869.9	880.8
45°	766.7	779.4	806.6	841.1	855.4
47.5°	726.8	741.4	772.2	812.1	828.4
50°	681.5	699.6	737.7	783.1	801.2
52.5°	638.0	659.7	701.5	752.2	775.8
55°	592.6	614.4	668.8	721.4	746.8
57.5°	541.9	570.9	630.7	690.6	717.8
60°	494.9	521.9	594.5	659.7	686.9
62.5°	444.1	480.4	558.2	627.1	654.3
65°	391.5	431.4	520.1	589.0	616.2
67.5°	344.4	387.9	482.2	550.9	578.1
70°	288.2	342.6	440.5	509.2	536.4
72.5°	235.6	295.4	397.0	464.1	489.5
75°	184.8	251.9	351.6	411.5	424.2
77.5°	137.8	208.4	304.5	329.9	320.8
80°	97.9	166.8	237.4	224.7	230.1
82.5°	63.5	126.9	146.9	166.8	172.1
85°	36.3	74.4	90.7	97.9	101.6
87.5°	16.3	27.2	36.3	36.3	34.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)