

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: P475081

Luminaire Tested: **22CZ2-24-RDP-UNV-L850-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P475081  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 02/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22CZ2-24-RDP-UNV-L850-CD1-U  
Description: 2'X2' TROFFER LED MODULE, SMOOTH LENS W/ RDP INSERT  
Light Source: 5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

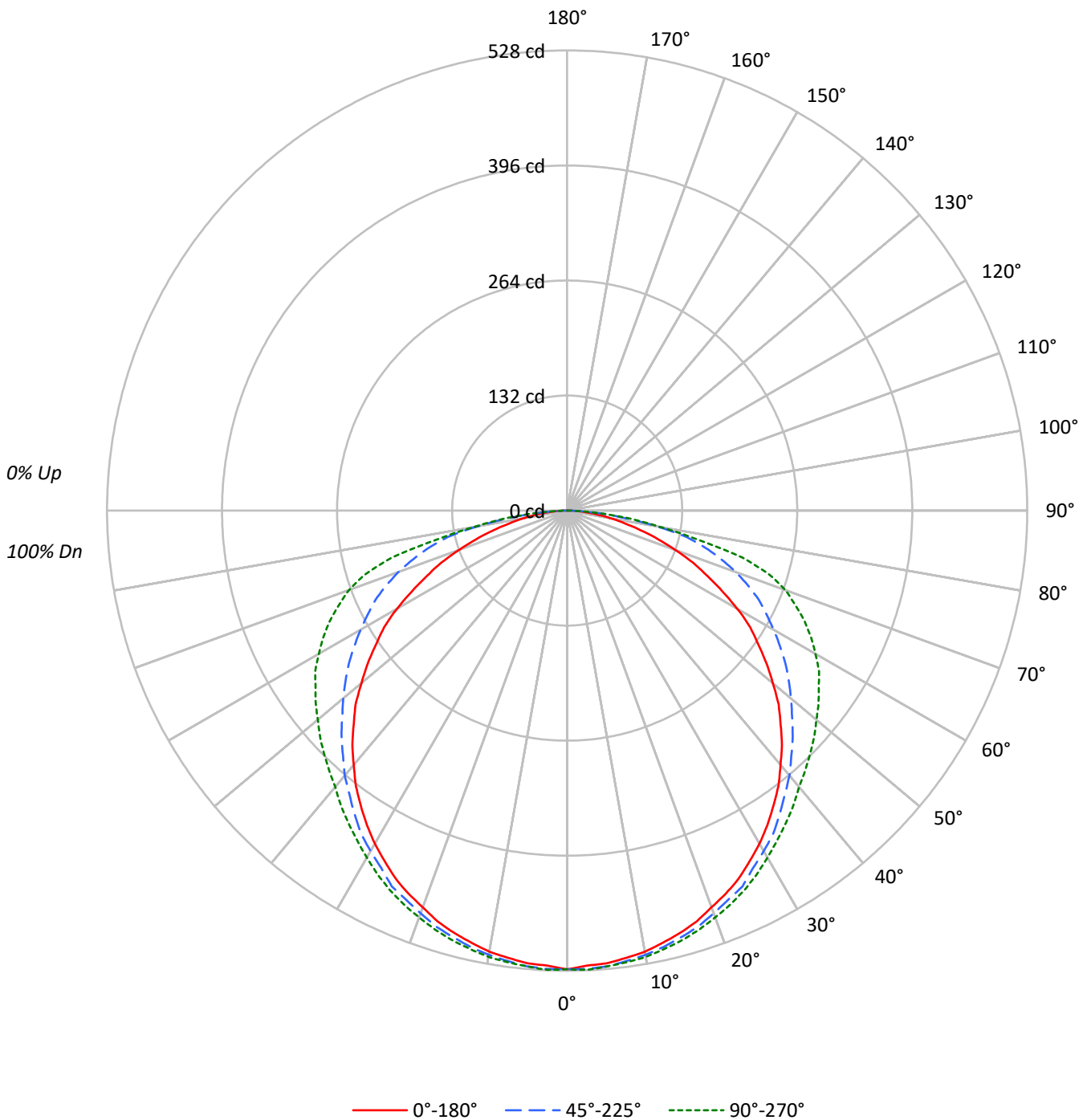
Lumens per Lamp: N/A  
Luminaire Lumens: 1675.5 lumens  
Efficiency: N/A  
Efficacy: 90.6 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.41  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 18.5  
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°	1416	1416	1416
5°	1408	1418	1418
10°	1404	1415	1421
15°	1397	1411	1421
20°	1387	1408	1422
25°	1383	1413	1427
30°	1371	1402	1429
35°	1356	1397	1438
40°	1338	1394	1455
45°	1318	1393	1501
50°	1290	1403	1563
55°	1255	1434	1654
60°	1214	1473	1771
65°	1130	1547	1915
70°	1038	1620	2095
75°	911	1704	2166
80°	784	1623	1700
85°	685	1179	1294



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	49.8	3.0
10°-20°	142.9	8.5
20°-30°	218.1	13.0
30°-40°	266.3	15.9
40°-50°	284.7	17.0
50°-60°	274.8	16.4
60°-70°	236.6	14.1
70°-80°	160.1	9.6
80°-90°	42.2	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°	410.8	24.5
0°-40°	677.1	40.4
0°-60°	1236.6	73.8
0°-90°	1675.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1675.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	526	526	526	526	526	
5°	521	523	525	525	525	50
15°	502	503	506	509	510	142
25°	466	468	476	478	481	214
35°	413	416	425	434	438	258
45°	346	352	366	385	394	267
55°	268	276	306	336	352	240
65°	178	195	243	281	301	177
75°	88	116	164	197	208	94
85°	22	31	38	39	42	25
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	526.3	526.3	526.3	526.3	526.3
2.5°	522.6	523.8	526.3	526.3	527.5
5°	521.4	522.6	525.0	525.0	525.0
7.5°	517.7	518.9	521.4	522.6	522.6
10°	513.9	515.2	517.7	518.9	520.1
12.5°	507.8	509.0	512.7	515.2	515.2
15°	501.6	502.9	506.5	509.0	510.2
17.5°	494.2	496.7	500.4	502.9	504.1
20°	484.4	486.8	491.7	495.5	496.7
22.5°	475.8	478.3	483.2	486.8	489.3
25°	465.9	468.3	475.8	478.3	480.7
27.5°	453.5	456.1	462.2	467.1	470.8
30°	441.3	443.7	451.1	457.3	459.8
32.5°	427.7	431.3	440.0	444.9	448.6
35°	412.9	416.5	425.2	433.8	437.6
37.5°	398.2	401.8	410.4	421.5	426.4
40°	380.9	385.8	396.8	411.6	414.1
42.5°	364.8	371.0	380.9	398.2	404.3
45°	346.4	352.5	366.1	384.6	394.4
47.5°	329.1	335.2	350.0	372.2	384.6
50°	308.1	316.7	335.2	361.2	373.4
52.5°	288.4	295.8	320.5	348.8	363.6
55°	267.5	276.1	305.7	336.4	352.5
57.5°	249.0	256.3	289.6	324.2	342.7
60°	225.6	235.4	273.6	310.6	329.1
62.5°	200.9	215.7	257.6	295.8	315.5
65°	177.5	194.7	242.9	281.0	300.8
67.5°	156.5	175.0	224.4	265.0	283.5
70°	131.9	155.3	205.9	245.3	266.3
72.5°	109.7	135.6	184.9	224.4	242.9
75°	87.6	115.9	163.9	197.2	208.3
77.5°	67.7	94.9	140.5	150.4	151.6
80°	50.6	75.2	104.7	105.9	109.7
82.5°	34.5	53.0	67.7	74.0	75.2
85°	22.2	30.9	38.2	39.4	41.9
87.5°	9.9	11.1	13.6	12.4	12.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)