

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: P475025

Luminaire Tested: **22CZ2-39-RDP-UNV-L835-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P475025  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 02/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22CZ2-39-RDP-UNV-L835-CD1-U  
Description: 2'X2' TROFFER LED MODULE, SMOOTH LENS W/ RDP INSERT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

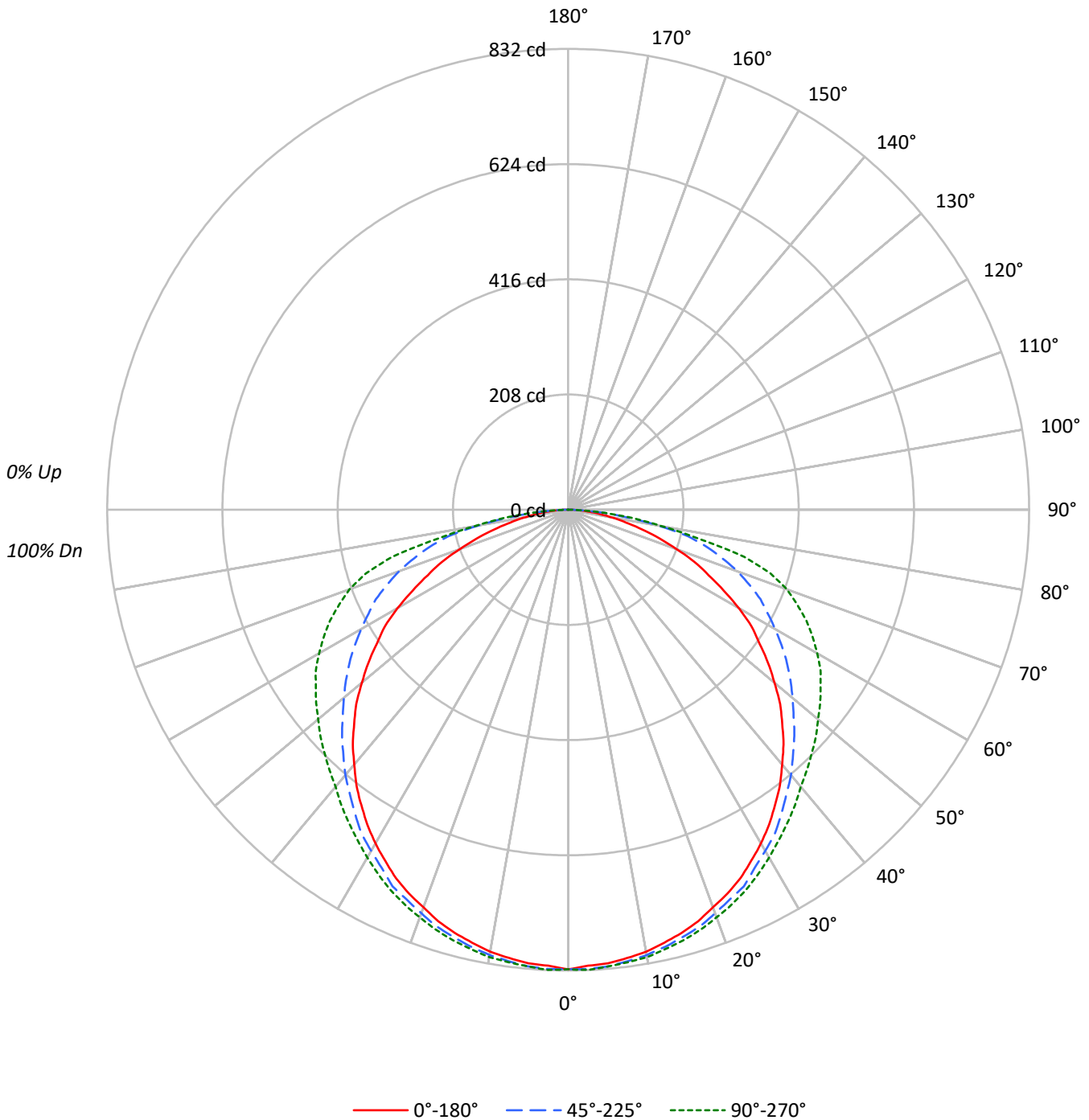
Lumens per Lamp: N/A  
Luminaire Lumens: 2641.9 lumens  
Efficiency: N/A  
Efficacy: 90.2 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.41  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 29.3  
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°	2233	2233	2233
5°	2221	2236	2236
10°	2214	2231	2241
15°	2204	2225	2241
20°	2187	2220	2243
25°	2181	2228	2251
30°	2162	2210	2253
35°	2139	2203	2267
40°	2110	2198	2294
45°	2078	2197	2366
50°	2034	2213	2465
55°	1979	2261	2608
60°	1914	2322	2793
65°	1782	2438	3020
70°	1637	2554	3303
75°	1436	2687	3415
80°	1237	2559	2681
85°	1081	1862	2038



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	78.5	3.0
10°-20°	225.4	8.5
20°-30°	343.9	13.0
30°-40°	419.9	15.9
40°-50°	448.9	17.0
50°-60°	433.3	16.4
60°-70°	373.0	14.1
70°-80°	252.4	9.6
80°-90°	66.6	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°	647.8	24.5
0°-40°	1067.6	40.4
0°-60°	1949.9	73.8
0°-90°	2641.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2641.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	830	830	830	830	830	
5°	822	824	828	828	828	78
15°	791	793	799	803	804	223
25°	735	738	750	754	758	338
35°	651	657	670	684	690	407
45°	546	556	577	606	622	422
55°	422	435	482	530	556	378
65°	280	307	383	443	474	278
75°	138	183	258	311	328	148
85°	35	49	60	62	66	39
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	829.8	829.8	829.8	829.8	829.8
2.5°	824.0	826.0	829.8	829.8	831.7
5°	822.1	824.0	827.9	827.9	827.9
7.5°	816.3	818.2	822.1	824.0	824.0
10°	810.3	812.4	816.3	818.2	820.2
12.5°	800.7	802.6	808.4	812.4	812.4
15°	791.0	792.9	798.7	802.6	804.5
17.5°	779.2	783.3	789.1	792.9	794.9
20°	763.8	767.6	775.4	781.3	783.3
22.5°	750.3	754.1	761.8	767.6	771.5
25°	734.6	738.5	750.3	754.1	758.0
27.5°	715.1	719.2	728.8	736.5	742.3
30°	695.8	699.7	711.2	721.1	725.0
32.5°	674.4	680.2	693.9	701.6	707.4
35°	651.0	656.8	670.5	684.0	690.0
37.5°	627.8	633.6	647.1	664.7	672.4
40°	600.6	608.3	625.7	649.1	652.9
42.5°	575.3	584.9	600.6	627.8	637.5
45°	546.1	555.8	577.2	606.4	621.8
47.5°	518.9	528.6	551.9	586.9	606.4
50°	485.9	499.4	528.6	569.5	588.8
52.5°	454.8	466.4	505.4	550.0	573.4
55°	421.8	435.3	482.0	530.5	555.8
57.5°	392.6	404.2	456.7	511.2	540.3
60°	355.7	371.2	431.4	489.7	518.9
62.5°	316.7	340.1	406.1	466.4	497.5
65°	279.8	307.1	382.9	443.0	474.3
67.5°	246.8	276.0	353.8	417.9	447.1
70°	208.0	244.9	324.6	386.8	419.8
72.5°	173.0	213.8	291.6	353.8	382.9
75°	138.1	182.7	258.4	310.9	328.5
77.5°	106.8	149.7	221.5	237.1	239.1
80°	79.8	118.6	165.1	167.0	173.0
82.5°	54.5	83.6	106.8	116.6	118.6
85°	35.0	48.7	60.3	62.2	66.0
87.5°	15.6	17.6	21.4	19.5	19.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)