

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: P475026

Luminaire Tested: **22CZ2-44-RDP-UNV-L835-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P475026  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 02/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22CZ2-44-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**

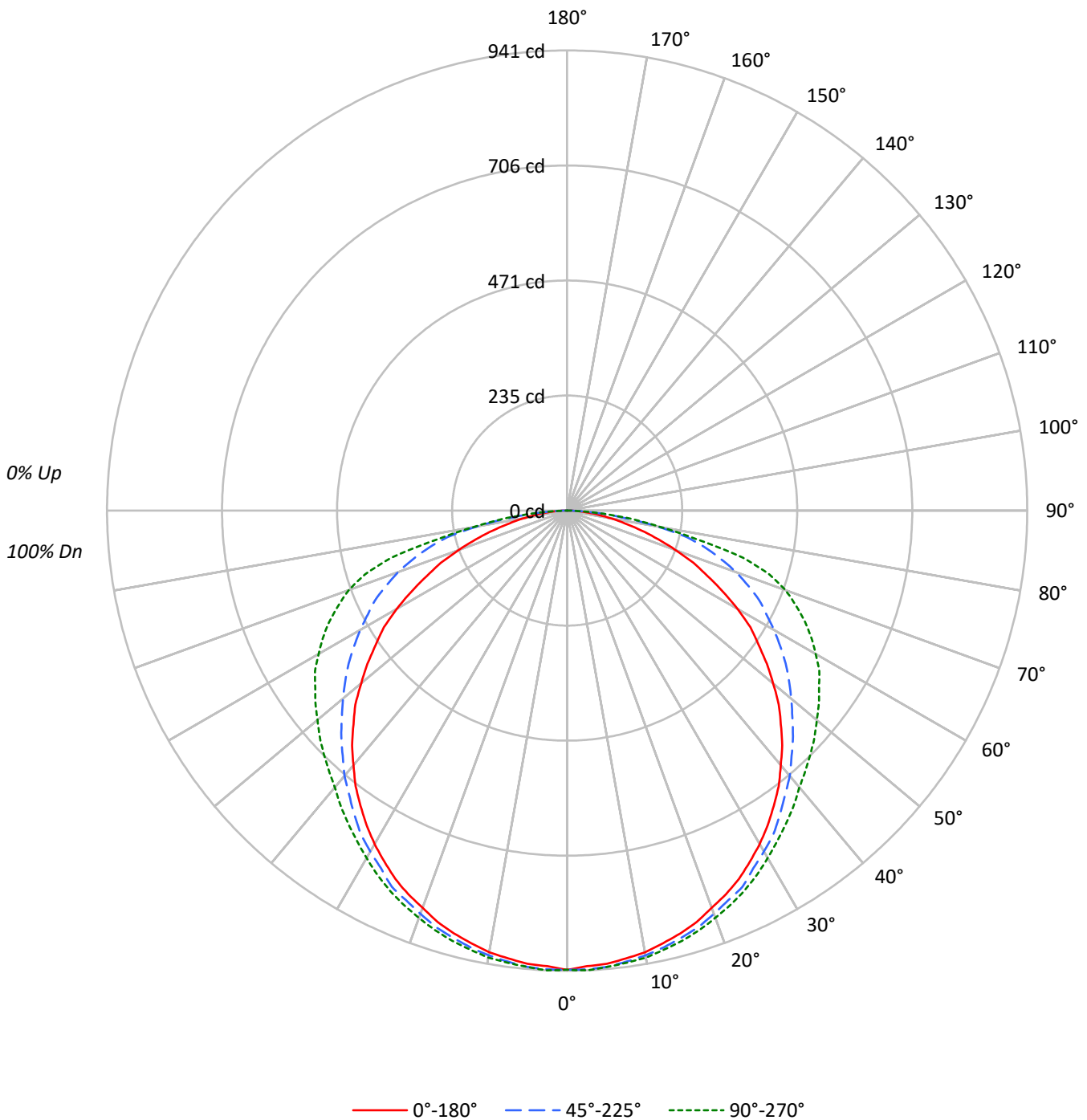
Lumens per Lamp: N/A  
Luminaire Lumens: 2989.6 lumens  
Efficiency: N/A  
Efficacy: 90.0 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.41  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 33.2  
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



TEST NUMBER: P475026  
CATALOG NUMBER: 22CZ2-44-RDP-UNV-L835-CD1-U

### Luminous Intensity Polar Plot





TEST NUMBER: P475026

CATALOG NUMBER: 22CZ2-44-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	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°	2527	2527	2527
5°	2513	2531	2531
10°	2506	2524	2536
15°	2494	2518	2536
20°	2475	2513	2538
25°	2468	2521	2547
30°	2447	2501	2549
35°	2420	2492	2565
40°	2387	2487	2596
45°	2352	2486	2678
50°	2302	2504	2789
55°	2239	2559	2951
60°	2166	2627	3160
65°	2017	2760	3417
70°	1852	2891	3738
75°	1625	3040	3865
80°	1399	2895	3034
85°	1223	2106	2306



TEST NUMBER: P475026

CATALOG NUMBER: 22CZ2-44-RDP-UNV-L835-CD1-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	88.8	3.0
10°-20°	255.1	8.5
20°-30°	389.1	13.0
30°-40°	475.1	15.9
40°-50°	508.0	17.0
50°-60°	490.4	16.4
60°-70°	422.1	14.1
70°-80°	285.6	9.6
80°-90°	75.4	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°	733.0	24.5
0°-40°	1208.1	40.4
0°-60°	2206.5	73.8
0°-90°	2989.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2989.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	939	939	939	939	939	
5°	930	932	937	937	937	88
15°	895	897	904	908	910	253
25°	831	836	849	853	858	383
35°	737	743	759	774	781	461
45°	618	629	653	686	704	477
55°	477	493	546	600	629	428
65°	317	348	433	501	537	315
75°	156	207	292	352	372	168
85°	40	55	68	70	75	45
90°	0	0	0	0	0	



TEST NUMBER: P475026

CATALOG NUMBER: 22CZ2-44-RDP-UNV-L835-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	939.0	939.0	939.0	939.0	939.0
2.5°	932.5	934.7	939.0	939.0	941.2
5°	930.3	932.5	936.9	936.9	936.9
7.5°	923.7	925.9	930.3	932.5	932.5
10°	917.0	919.4	923.7	925.9	928.1
12.5°	906.0	908.2	914.8	919.4	919.4
15°	895.1	897.3	903.9	908.2	910.4
17.5°	881.8	886.4	892.9	897.3	899.5
20°	864.3	868.7	877.4	884.2	886.4
22.5°	849.0	853.4	862.1	868.7	873.0
25°	831.3	835.7	849.0	853.4	857.7
27.5°	809.2	813.8	824.7	833.5	840.0
30°	787.4	791.7	804.9	816.0	820.4
32.5°	763.1	769.7	785.2	793.9	800.5
35°	736.7	743.2	758.7	774.0	780.8
37.5°	710.5	717.0	732.3	752.2	760.9
40°	679.6	688.4	708.0	734.5	738.9
42.5°	651.0	661.9	679.6	710.5	721.4
45°	618.0	628.9	653.2	686.2	703.7
47.5°	587.2	598.1	624.6	664.1	686.2
50°	549.8	565.1	598.1	644.5	666.3
52.5°	514.6	527.8	571.9	622.4	648.8
55°	477.3	492.6	545.5	600.3	628.9
57.5°	444.3	457.4	516.8	578.5	611.5
60°	402.5	420.0	488.2	554.2	587.2
62.5°	358.4	384.8	459.6	527.8	562.9
65°	316.7	347.5	433.4	501.3	536.7
67.5°	279.3	312.3	400.4	472.9	505.9
70°	235.4	277.1	367.4	437.7	475.1
72.5°	195.8	241.9	330.0	400.4	433.4
75°	156.3	206.7	292.4	351.8	371.7
77.5°	120.8	169.4	250.7	268.4	270.5
80°	90.3	134.2	186.8	189.0	195.8
82.5°	61.6	94.6	120.8	132.0	134.2
85°	39.6	55.1	68.2	70.4	74.7
87.5°	17.7	19.9	24.3	22.1	22.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)