

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: P475387

Luminaire Tested: **14CZ2-25-S-UNV-L835-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P475387  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 02/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14CZ2-25-S-UNV-L835-CD1-U  
Description: 1'X4' TROFFER LED MODULE, SMOOTH LENS  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

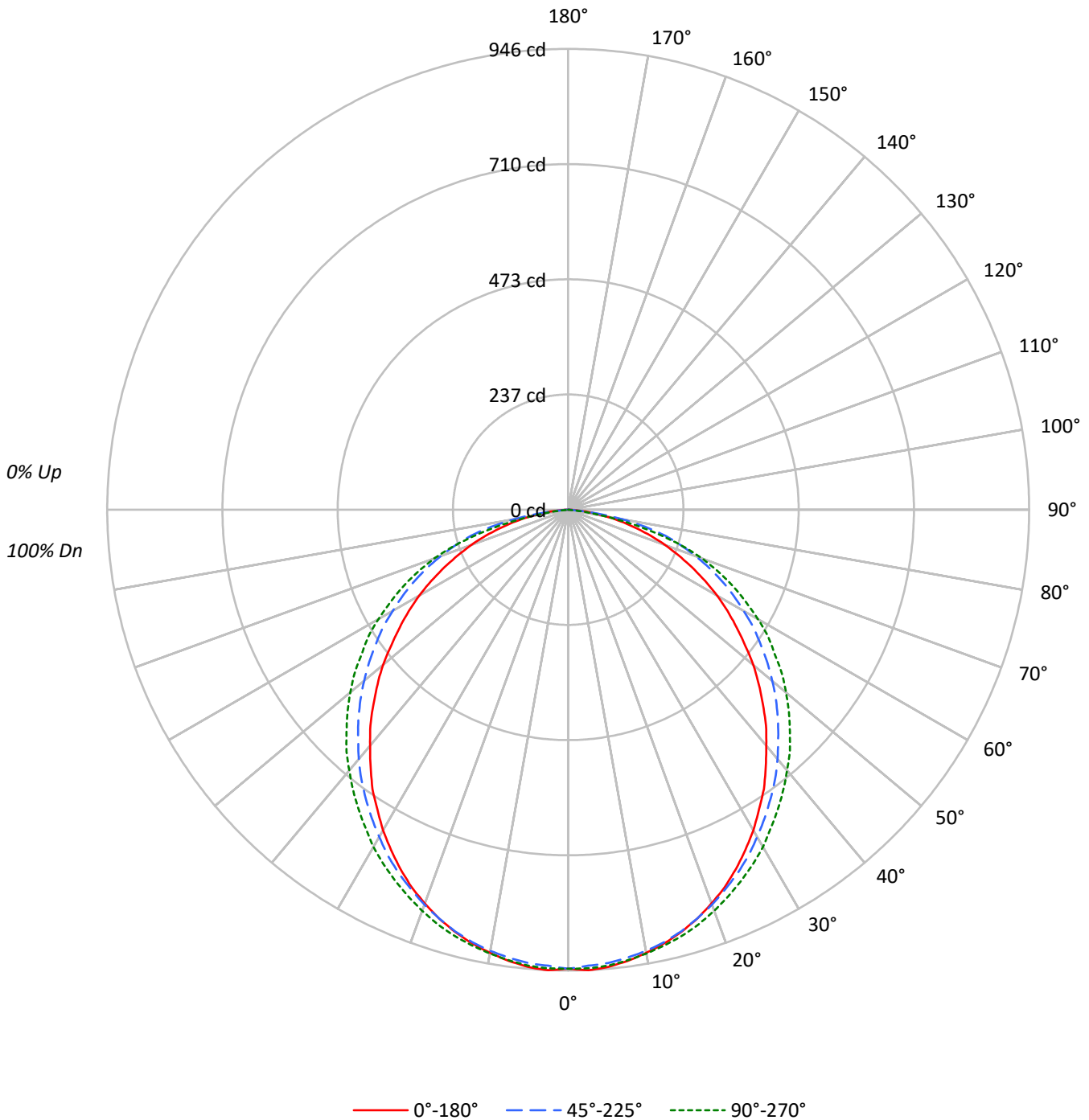
Lumens per Lamp: N/A  
Luminaire Lumens: 2634.0 lumens  
Efficiency: N/A  
Efficacy: 138.6 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.36  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 19  
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	109	104	100	96	106	102	98	94	98	94	91	94	91	89	90	88	86	84
2	99	91	84	78	96	89	82	77	85	80	75	82	77	74	79	75	72	70
3	90	79	71	65	88	78	70	64	75	68	63	72	67	62	70	65	61	59
4	82	70	61	55	80	69	61	54	66	59	54	64	58	53	62	57	52	50
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43
6	70	57	48	41	68	56	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	29	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2536	2536	2536
5°	2545	2524	2538
10°	2524	2513	2528
15°	2500	2496	2522
20°	2463	2471	2509
25°	2417	2444	2495
30°	2361	2410	2484
35°	2300	2378	2465
40°	2222	2348	2455
45°	2151	2317	2448
50°	2078	2288	2443
55°	1981	2260	2428
60°	1902	2237	2422
65°	1787	2225	2385
70°	1666	2186	2301
75°	1472	2147	1940
80°	1190	1743	1148
85°	858	491	124



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	89.1	3.4
10°-20°	253.7	9.6
20°-30°	380.7	14.5
30°-40°	453.7	17.2
40°-50°	468.6	17.8
50°-60°	426.8	16.2
60°-70°	334.3	12.7
70°-80°	193.4	7.3
80°-90°	33.6	1.3
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°	723.5	27.5
0°-40°	1177.2	44.7
0°-60°	2072.6	78.7
0°-90°	2634.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2634.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	942	942	942	942	942	
5°	942	940	934	941	940	89
15°	897	896	896	905	905	253
25°	814	817	823	839	840	375
35°	700	707	724	746	750	437
45°	565	580	609	637	643	436
55°	422	443	482	512	518	378
65°	281	306	349	372	374	278
75°	142	172	206	200	187	151
85°	28	37	16	5	4	34
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	942.3	942.3	942.3	942.3	942.3
2.5°	946.3	942.3	937.0	942.3	942.3
5°	942.3	939.6	934.3	941.0	939.6
7.5°	934.3	931.7	927.7	934.3	933.0
10°	923.8	922.4	919.8	927.7	925.1
12.5°	911.8	910.5	909.2	917.1	915.8
15°	897.3	896.0	896.0	905.2	905.2
17.5°	880.1	880.1	880.1	892.0	892.0
20°	860.2	860.2	862.9	876.1	876.1
22.5°	839.1	839.1	843.0	857.6	858.9
25°	813.9	816.6	823.2	839.1	840.4
27.5°	787.4	791.4	800.7	817.9	820.5
30°	759.7	763.6	775.5	795.4	799.4
32.5°	729.2	735.8	750.4	770.2	774.2
35°	700.1	706.7	723.9	746.4	750.4
37.5°	665.7	676.3	697.5	718.6	725.2
40°	632.6	644.5	668.3	693.5	698.8
42.5°	600.8	611.4	637.9	665.7	673.6
45°	565.1	579.7	608.8	636.6	643.2
47.5°	530.7	545.3	578.3	607.5	614.1
50°	496.3	510.8	546.6	575.7	583.6
52.5°	457.9	479.1	514.8	543.9	553.2
55°	422.2	443.4	481.7	512.2	517.5
57.5°	387.8	408.9	451.3	479.1	487.0
60°	353.4	374.5	415.6	443.4	450.0
62.5°	316.3	340.1	382.5	406.3	411.6
65°	280.6	305.7	349.4	371.9	374.5
67.5°	244.8	271.3	313.7	332.2	334.8
70°	211.7	238.2	277.9	295.1	292.5
72.5°	177.3	203.8	242.2	251.5	243.5
75°	141.6	172.0	206.5	199.8	186.6
77.5°	109.8	139.0	161.5	141.6	131.0
80°	76.8	107.2	112.5	87.3	74.1
82.5°	50.3	75.4	60.9	37.1	33.1
85°	27.8	37.1	15.9	5.3	4.0
87.5°	9.3	5.3	2.6	1.3	1.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)