

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: P475032

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

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P475032  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 02/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22CZ2-44HE-RDP-UNV-L835-CD1-U  
Description: 2'X2' TROFFER LED MODULE, HIGH EFFICIENCY,SMOOTH LENS W/ RDP INSERT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3060.0 lumens  
Efficiency: N/A  
Efficacy: 93.3 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

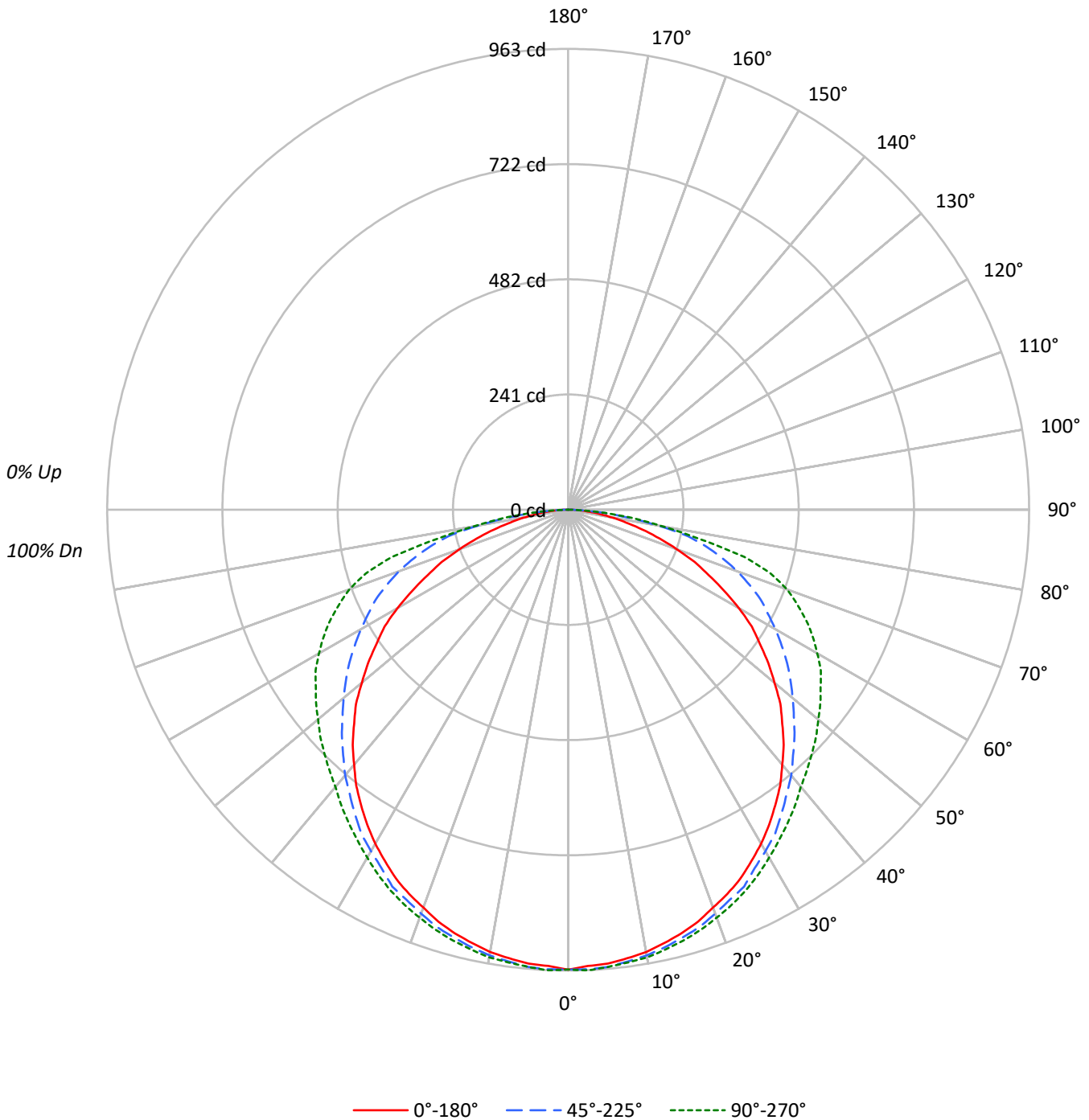
Input Watts (W): 32.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2586	2586	2586
5°	2572	2590	2590
10°	2564	2584	2596
15°	2552	2577	2596
20°	2533	2572	2598
25°	2526	2580	2607
30°	2504	2560	2609
35°	2477	2551	2625
40°	2444	2546	2656
45°	2407	2544	2741
50°	2356	2563	2855
55°	2292	2619	3020
60°	2217	2689	3235
65°	2064	2824	3498
70°	1895	2958	3826
75°	1663	3112	3956
80°	1432	2963	3106
85°	1250	2155	2362



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	90.9	3.0
10°-20°	261.0	8.5
20°-30°	398.3	13.0
30°-40°	486.3	15.9
40°-50°	520.0	17.0
50°-60°	501.9	16.4
60°-70°	432.0	14.1
70°-80°	292.3	9.6
80°-90°	77.2	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°	750.3	24.5
0°-40°	1236.6	40.4
0°-60°	2258.4	73.8
0°-90°	3060.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3060.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	961	961	961	961	961	
5°	952	954	959	959	959	90
15°	916	918	925	930	932	258
25°	851	855	869	874	878	392
35°	754	761	777	792	799	472
45°	633	644	669	702	720	488
55°	488	504	558	614	644	438
65°	324	356	444	513	549	322
75°	160	212	299	360	380	171
85°	40	56	70	72	76	46
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	961.1	961.1	961.1	961.1	961.1
2.5°	954.4	956.7	961.1	961.1	963.4
5°	952.2	954.4	958.9	958.9	958.9
7.5°	945.5	947.7	952.2	954.4	954.4
10°	938.5	941.0	945.5	947.7	950.0
12.5°	927.4	929.6	936.3	941.0	941.0
15°	916.2	918.4	925.1	929.6	931.8
17.5°	902.5	907.2	913.9	918.4	920.7
20°	884.6	889.1	898.1	905.0	907.2
22.5°	869.0	873.5	882.4	889.1	893.6
25°	850.9	855.3	869.0	873.5	877.9
27.5°	828.3	833.0	844.2	853.1	859.8
30°	805.9	810.4	823.8	835.2	839.7
32.5°	781.1	787.8	803.7	812.6	819.3
35°	754.0	760.7	776.6	792.3	799.2
37.5°	727.2	733.9	749.5	769.9	778.8
40°	695.6	704.6	724.7	751.8	756.2
42.5°	666.3	677.5	695.6	727.2	738.4
45°	632.6	643.7	668.6	702.3	720.2
47.5°	601.0	612.2	639.3	679.8	702.3
50°	562.8	578.4	612.2	659.6	682.0
52.5°	526.8	540.2	585.4	637.0	664.1
55°	488.5	504.2	558.3	614.4	643.7
57.5°	454.7	468.2	529.0	592.1	625.8
60°	412.0	429.9	499.7	567.2	601.0
62.5°	366.8	393.9	470.4	540.2	576.2
65°	324.1	355.6	443.5	513.1	549.3
67.5°	285.9	319.6	409.8	484.0	517.8
70°	240.9	283.6	376.0	448.0	486.3
72.5°	200.4	247.6	337.8	409.8	443.5
75°	159.9	211.6	299.3	360.1	380.5
77.5°	123.7	173.3	256.6	274.7	276.9
80°	92.4	137.3	191.2	193.5	200.4
82.5°	63.1	96.9	123.7	135.1	137.3
85°	40.5	56.4	69.8	72.0	76.5
87.5°	18.1	20.4	24.8	22.6	22.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)