

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: P475037

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

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475037
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-44VHE-RDP-UNV-L835-CD1-U
Description: 2'X2' TROFFER LED MODULE, VERY 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: 2954.1 lumens
Efficiency: N/A
Efficacy: 97.8 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

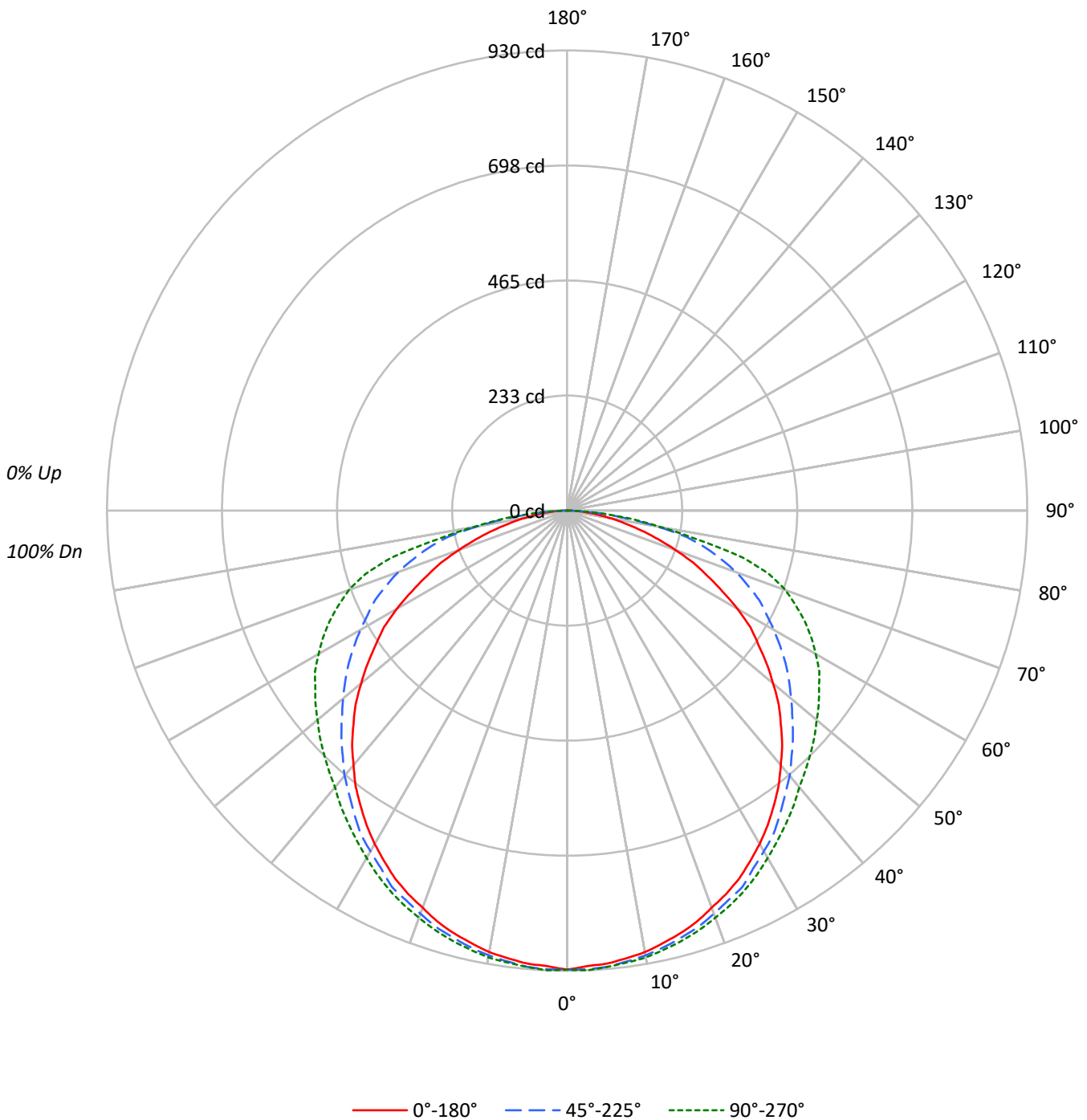
Input Watts (W): 30.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2497	2497	2497
5°	2483	2501	2501
10°	2476	2494	2506
15°	2464	2488	2506
20°	2446	2483	2508
25°	2439	2491	2517
30°	2417	2471	2519
35°	2391	2463	2534
40°	2359	2458	2565
45°	2324	2456	2646
50°	2274	2474	2756
55°	2213	2529	2916
60°	2141	2596	3123
65°	1992	2727	3377
70°	1830	2856	3693
75°	1605	3004	3819
80°	1382	2861	2999
85°	1207	2081	2282



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.8	3.0
10°-20°	252.0	8.5
20°-30°	384.5	13.0
30°-40°	469.5	15.9
40°-50°	502.0	17.0
50°-60°	484.5	16.4
60°-70°	417.1	14.1
70°-80°	282.2	9.6
80°-90°	74.5	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°	724.3	24.5
0°-40°	1193.8	40.4
0°-60°	2180.3	73.8
0°-90°	2954.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2954.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	928	928	928	928	928	
5°	919	921	926	926	926	87
15°	884	887	893	897	900	250
25°	821	826	839	843	848	378
35°	728	734	750	765	772	456
45°	611	622	645	678	695	471
55°	472	487	539	593	622	423
65°	313	343	428	495	530	311
75°	154	204	289	348	367	166
85°	39	54	67	70	74	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	927.9	927.9	927.9	927.9	927.9
2.5°	921.4	923.6	927.9	927.9	930.0
5°	919.2	921.4	925.7	925.7	925.7
7.5°	912.8	914.9	919.2	921.4	921.4
10°	906.1	908.5	912.8	914.9	917.1
12.5°	895.3	897.4	903.9	908.5	908.5
15°	884.5	886.6	893.1	897.4	899.6
17.5°	871.3	875.8	882.3	886.6	888.8
20°	854.0	858.4	867.0	873.7	875.8
22.5°	838.9	843.2	851.9	858.4	862.7
25°	821.4	825.7	838.9	843.2	847.6
27.5°	799.6	804.2	814.9	823.6	830.1
30°	778.0	782.3	795.3	806.3	810.6
32.5°	754.1	760.5	775.9	784.5	791.0
35°	727.9	734.4	749.7	764.9	771.5
37.5°	702.0	708.5	723.6	743.3	751.9
40°	671.6	680.2	699.6	725.8	730.1
42.5°	643.3	654.1	671.6	702.0	712.8
45°	610.7	621.5	645.4	678.0	695.3
47.5°	580.2	591.0	617.2	656.2	678.0
50°	543.3	558.4	591.0	636.8	658.4
52.5°	508.5	521.5	565.1	615.0	641.1
55°	471.6	486.7	539.0	593.2	621.5
57.5°	439.0	452.0	510.7	571.6	604.2
60°	397.8	415.0	482.4	547.6	580.2
62.5°	354.1	380.3	454.1	521.5	556.3
65°	312.9	343.3	428.2	495.4	530.3
67.5°	276.0	308.6	395.6	467.3	499.9
70°	232.6	273.8	363.0	432.5	469.4
72.5°	193.5	239.0	326.1	395.6	428.2
75°	154.4	204.3	288.9	347.7	367.3
77.5°	119.4	167.4	247.7	265.2	267.3
80°	89.2	132.6	184.6	186.8	193.5
82.5°	60.9	93.5	119.4	130.4	132.6
85°	39.1	54.4	67.4	69.5	73.9
87.5°	17.5	19.7	24.0	21.8	21.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)