

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: P475001

Luminaire Tested: **22CZ2-34HE-RDP-UNV-L830-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475001
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-34HE-RDP-UNV-L830-CD1-U
Description: 2'X2' TROFFER LED MODULE, HIGH EFFICIENCY,SMOOTH LENS W/ RDP INSERT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2215.1 lumens
Efficiency: N/A
Efficacy: 91.2 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

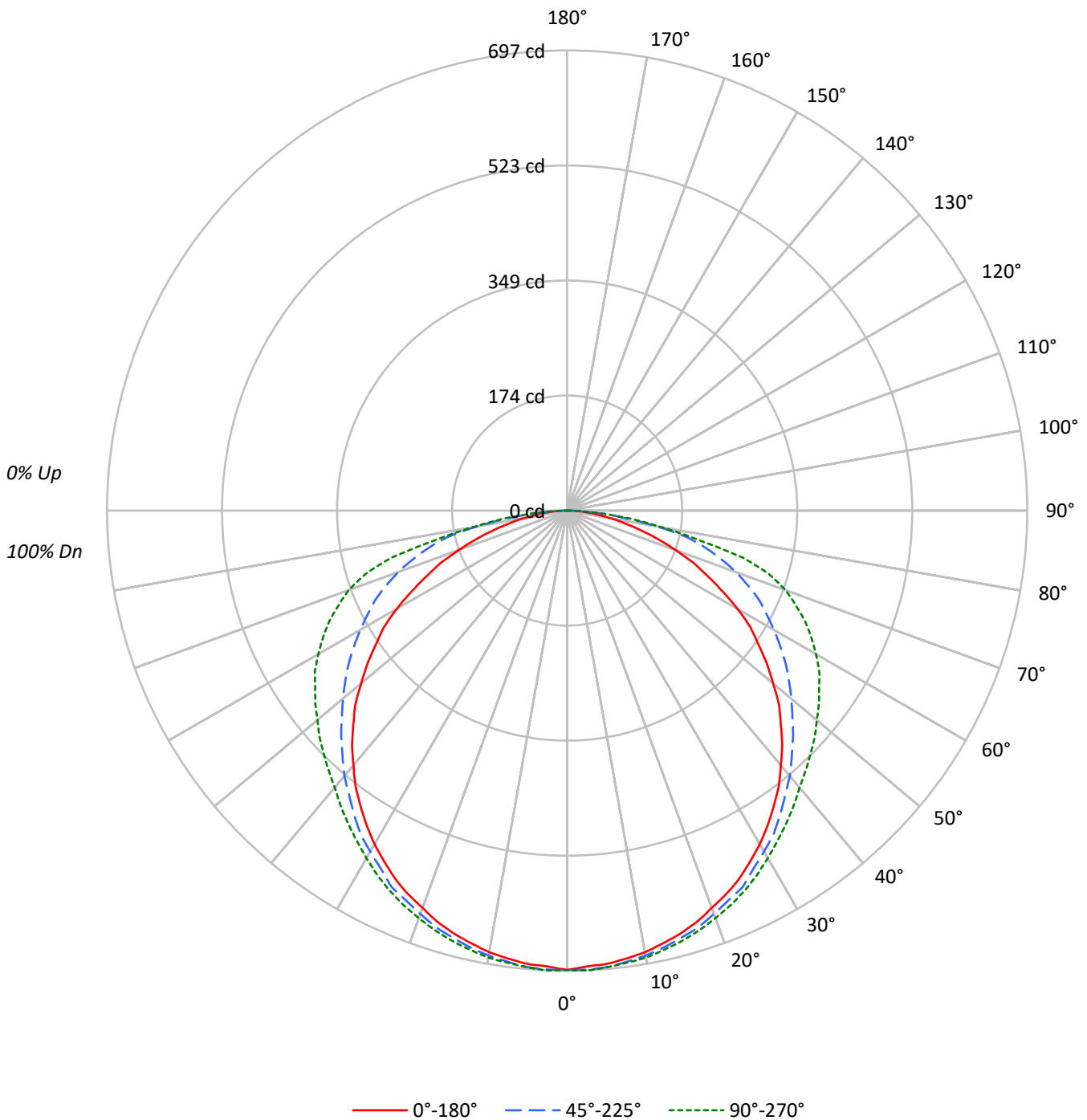
Input Watts (W): 24.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1872	1872	1872
5°	1862	1875	1875
10°	1856	1870	1879
15°	1848	1866	1879
20°	1834	1862	1881
25°	1829	1868	1887
30°	1813	1853	1889
35°	1793	1847	1900
40°	1769	1843	1923
45°	1743	1842	1984
50°	1706	1855	2067
55°	1659	1896	2186
60°	1605	1947	2342
65°	1494	2045	2532
70°	1372	2142	2769
75°	1204	2253	2863
80°	1037	2145	2249
85°	905	1559	1711



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.8	3.0
10°-20°	189.0	8.5
20°-30°	288.3	13.0
30°-40°	352.0	15.9
40°-50°	376.4	17.0
50°-60°	363.3	16.4
60°-70°	312.8	14.1
70°-80°	211.6	9.6
80°-90°	55.9	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°	543.1	24.5
0°-40°	895.2	40.4
0°-60°	1634.9	73.8
0°-90°	2215.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2215.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	696	696	696	696	696	
5°	689	691	694	694	694	65
15°	663	665	670	673	675	187
25°	616	619	629	632	636	283
35°	546	551	562	574	578	342
45°	458	466	484	508	521	353
55°	354	365	404	445	466	317
65°	235	258	321	371	398	233
75°	116	153	217	261	275	124
85°	29	41	50	52	55	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	695.8	695.8	695.8	695.8	695.8
2.5°	690.9	692.5	695.8	695.8	697.4
5°	689.3	690.9	694.2	694.2	694.2
7.5°	684.4	686.1	689.3	690.9	690.9
10°	679.4	681.2	684.4	686.1	687.7
12.5°	671.3	672.9	677.8	681.2	681.2
15°	663.2	664.8	669.7	672.9	674.6
17.5°	653.4	656.8	661.6	664.8	666.5
20°	640.4	643.6	650.1	655.1	656.8
22.5°	629.1	632.3	638.8	643.6	646.9
25°	615.9	619.2	629.1	632.3	635.5
27.5°	599.6	603.0	611.1	617.6	622.4
30°	583.4	586.6	596.4	604.6	607.9
32.5°	565.4	570.3	581.8	588.3	593.1
35°	545.8	550.7	562.2	573.5	578.5
37.5°	526.4	531.3	542.6	557.3	563.8
40°	503.6	510.1	524.6	544.2	547.5
42.5°	482.4	490.5	503.6	526.4	534.5
45°	457.9	466.0	484.0	508.4	521.4
47.5°	435.1	443.2	462.8	492.1	508.4
50°	407.4	418.7	443.2	477.5	493.7
52.5°	381.3	391.0	423.7	461.2	480.7
55°	353.6	365.0	404.2	444.8	466.0
57.5°	329.2	338.9	382.9	428.6	453.1
60°	298.3	311.2	361.7	410.6	435.1
62.5°	265.6	285.1	340.5	391.0	417.1
65°	234.6	257.5	321.1	371.4	397.7
67.5°	206.9	231.4	296.6	350.4	374.8
70°	174.4	205.3	272.2	324.3	352.0
72.5°	145.1	179.2	244.5	296.6	321.1
75°	115.8	153.2	216.7	260.7	275.4
77.5°	89.5	125.5	185.7	198.8	200.5
80°	66.9	99.4	138.4	140.1	145.1
82.5°	45.7	70.1	89.5	97.8	99.4
85°	29.3	40.8	50.5	52.1	55.4
87.5°	13.1	14.7	18.0	16.4	16.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)