

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: P475007

Luminaire Tested: **22CZ2-39VHE-RDP-UNV-L830-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475007
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-39VHE-RDP-UNV-L830-CD1-U
Description: 2'X2' TROFFER LED MODULE, VERY 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: 2534.6 lumens
Efficiency: N/A
Efficacy: 94.9 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

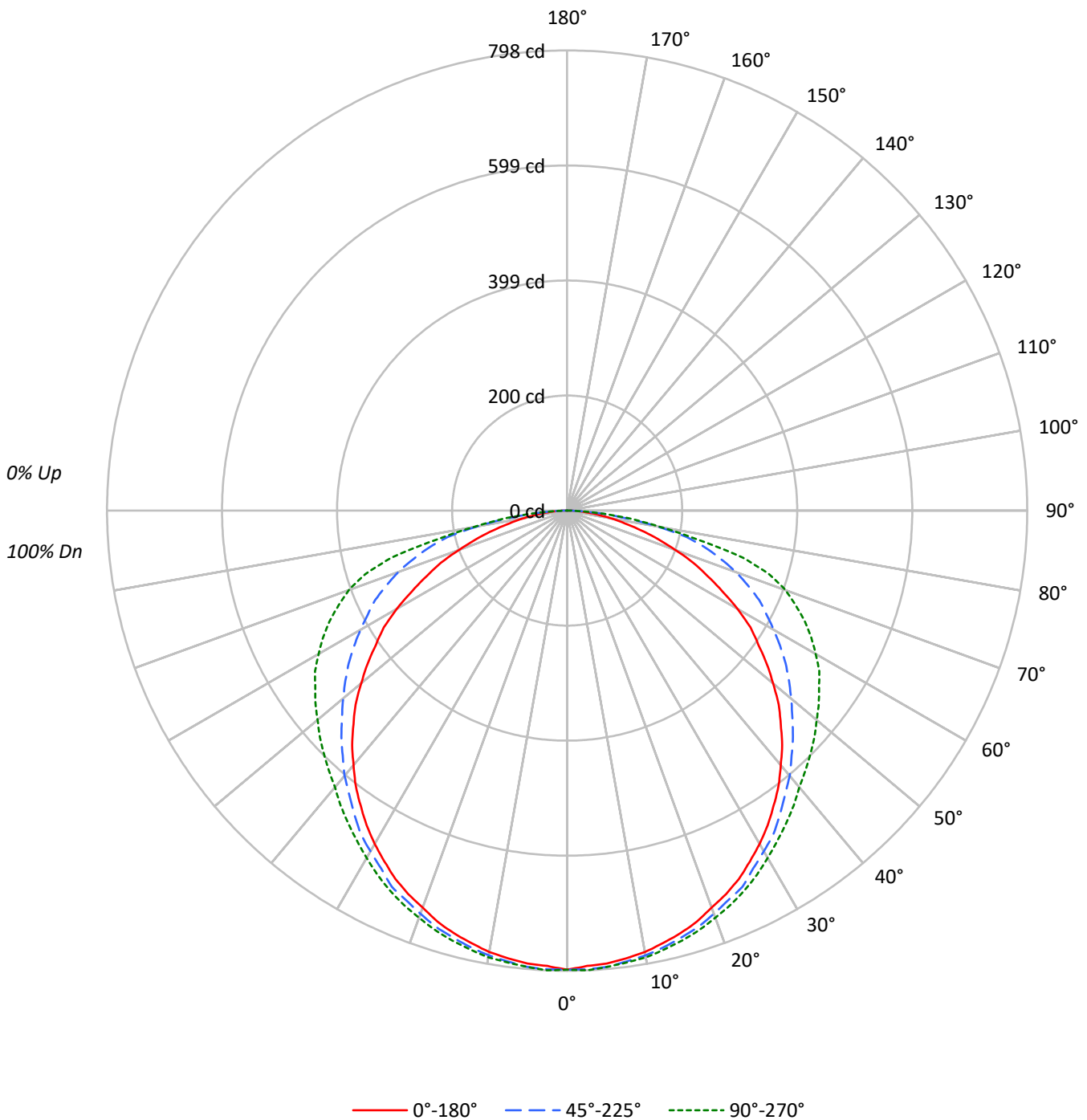
Input Watts (W): 26.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2142	2142	2142
5°	2130	2145	2145
10°	2124	2140	2150
15°	2114	2135	2150
20°	2098	2130	2152
25°	2093	2137	2159
30°	2074	2120	2161
35°	2052	2113	2175
40°	2024	2109	2200
45°	1994	2108	2270
50°	1951	2123	2365
55°	1898	2169	2502
60°	1837	2228	2679
65°	1710	2339	2897
70°	1570	2450	3169
75°	1378	2577	3276
80°	1185	2455	2572
85°	1034	1785	1958



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.3	3.0
10°-20°	216.2	8.5
20°-30°	329.9	13.0
30°-40°	402.8	15.9
40°-50°	430.7	17.0
50°-60°	415.7	16.4
60°-70°	357.9	14.1
70°-80°	242.1	9.6
80°-90°	63.9	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°	621.4	24.5
0°-40°	1024.2	40.4
0°-60°	1870.6	73.8
0°-90°	2534.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2534.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	796	796	796	796	796	
5°	789	790	794	794	794	75
15°	759	761	766	770	772	214
25°	705	708	720	724	727	324
35°	624	630	643	656	662	391
45°	524	533	554	582	597	404
55°	405	418	462	509	533	363
65°	268	295	367	425	455	267
75°	132	175	248	298	315	142
85°	34	47	58	60	63	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	796.1	796.1	796.1	796.1	796.1
2.5°	790.5	792.4	796.1	796.1	798.0
5°	788.7	790.5	794.2	794.2	794.2
7.5°	783.1	785.0	788.7	790.5	790.5
10°	777.4	779.4	783.1	785.0	786.8
12.5°	768.1	770.0	775.5	779.4	779.4
15°	758.9	760.7	766.3	770.0	771.8
17.5°	747.6	751.4	757.0	760.7	762.6
20°	732.7	736.4	743.9	749.6	751.4
22.5°	719.8	723.5	730.9	736.4	740.1
25°	704.8	708.5	719.8	723.5	727.2
27.5°	686.1	689.9	699.2	706.6	712.2
30°	667.5	671.2	682.3	691.8	695.5
32.5°	647.0	652.5	665.7	673.1	678.6
35°	624.5	630.1	643.3	656.2	662.0
37.5°	602.3	607.9	620.8	637.7	645.1
40°	576.2	583.6	600.3	622.7	626.4
42.5°	551.9	561.2	576.2	602.3	611.6
45°	523.9	533.2	553.8	581.7	596.6
47.5°	497.8	507.1	529.5	563.0	581.7
50°	466.1	479.1	507.1	546.4	564.9
52.5°	436.3	447.4	484.8	527.6	550.1
55°	404.6	417.6	462.4	508.9	533.2
57.5°	376.7	387.8	438.2	490.4	518.4
60°	341.3	356.1	413.9	469.8	497.8
62.5°	303.8	326.3	389.6	447.4	477.3
65°	268.5	294.6	367.4	425.0	455.0
67.5°	236.8	264.7	339.4	400.9	428.9
70°	199.5	234.9	311.4	371.1	402.8
72.5°	166.0	205.1	279.8	339.4	367.4
75°	132.5	175.3	247.9	298.3	315.1
77.5°	102.5	143.6	212.5	227.5	229.4
80°	76.5	113.8	158.4	160.3	166.0
82.5°	52.2	80.2	102.5	111.9	113.8
85°	33.5	46.7	57.8	59.7	63.4
87.5°	15.0	16.9	20.6	18.7	18.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)