

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: P475024

Luminaire Tested: **22CZ2-32-RDP-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475024
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-32-RDP-UNV-L835-CD1-U
Description: 2'X2' TROFFER LED MODULE, SMOOTH LENS W/ RDP INSERT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

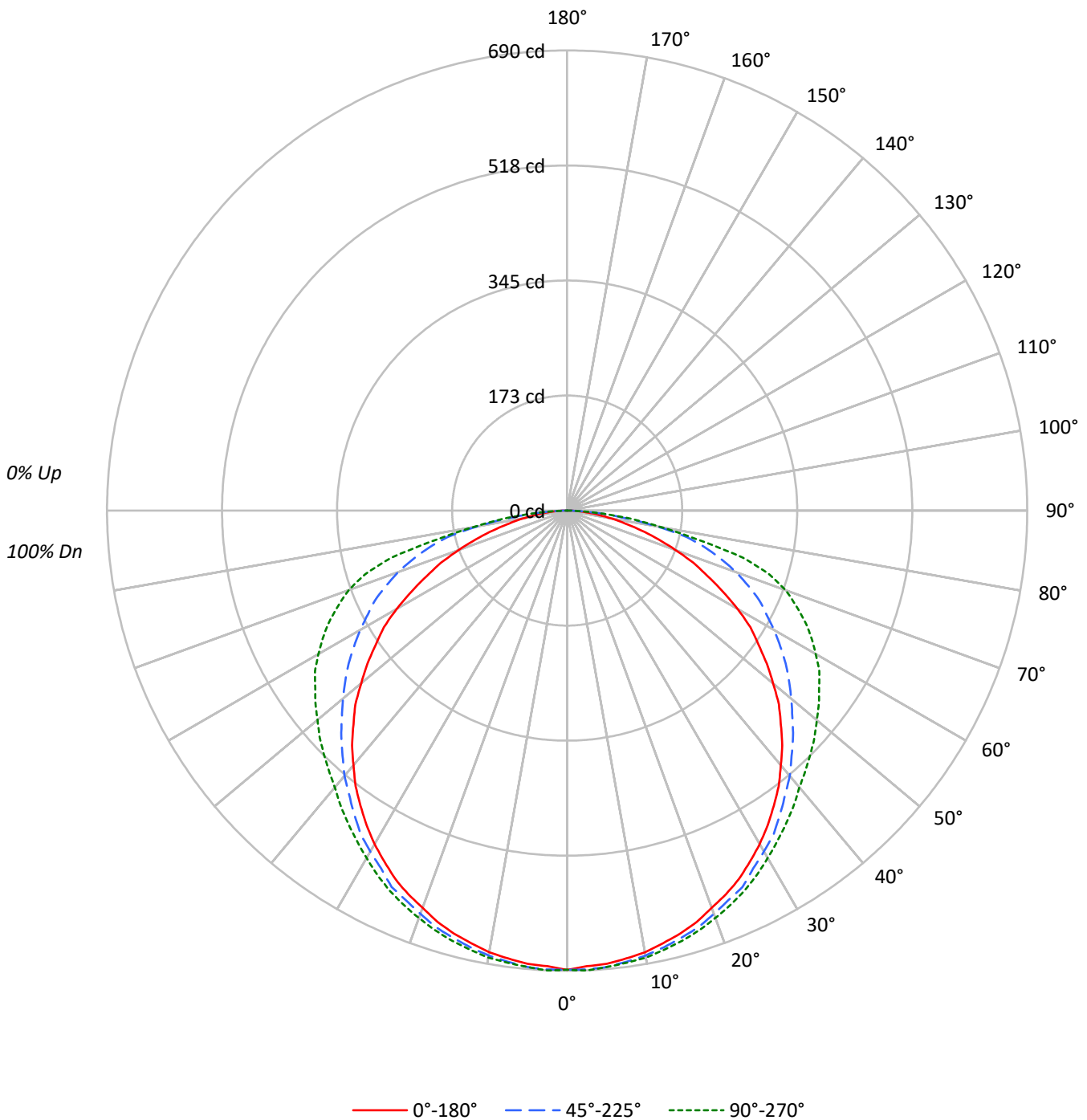
Lumens per Lamp: N/A
Luminaire Lumens: 2192.3 lumens
Efficiency: N/A
Efficacy: 90.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 24.2
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°	1853	1853	1853
5°	1843	1856	1856
10°	1837	1851	1860
15°	1829	1846	1860
20°	1815	1842	1861
25°	1810	1849	1868
30°	1794	1834	1869
35°	1775	1828	1881
40°	1751	1824	1903
45°	1725	1823	1964
50°	1688	1836	2045
55°	1642	1877	2164
60°	1589	1927	2317
65°	1479	2024	2506
70°	1358	2120	2741
75°	1192	2229	2834
80°	1026	2123	2225
85°	895	1544	1692



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.1	3.0
10°-20°	187.0	8.5
20°-30°	285.4	13.0
30°-40°	348.4	15.9
40°-50°	372.5	17.0
50°-60°	359.6	16.4
60°-70°	309.5	14.1
70°-80°	209.4	9.6
80°-90°	55.3	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°	537.5	24.5
0°-40°	885.9	40.4
0°-60°	1618.1	73.8
0°-90°	2192.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2192.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	689	689	689	689	689	
5°	682	684	687	687	687	65
15°	656	658	663	666	668	185
25°	610	613	623	626	629	281
35°	540	545	556	568	573	338
45°	453	461	479	503	516	350
55°	350	361	400	440	461	314
65°	232	255	318	368	394	231
75°	115	152	214	258	273	123
85°	29	40	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°	688.6	688.6	688.6	688.6	688.6
2.5°	683.8	685.4	688.6	688.6	690.2
5°	682.2	683.8	687.0	687.0	687.0
7.5°	677.4	679.0	682.2	683.8	683.8
10°	672.4	674.2	677.4	679.0	680.6
12.5°	664.4	666.0	670.8	674.2	674.2
15°	656.4	658.0	662.8	666.0	667.6
17.5°	646.6	650.0	654.8	658.0	659.6
20°	633.8	637.0	643.4	648.4	650.0
22.5°	622.6	625.8	632.2	637.0	640.2
25°	609.6	612.8	622.6	625.8	629.0
27.5°	593.4	596.8	604.8	611.2	616.0
30°	577.4	580.6	590.2	598.4	601.6
32.5°	559.6	564.4	575.8	582.2	587.0
35°	540.2	545.0	556.4	567.6	572.6
37.5°	521.0	525.8	537.0	551.6	558.0
40°	498.4	504.8	519.2	538.6	541.8
42.5°	477.4	485.4	498.4	521.0	529.0
45°	453.2	461.2	479.0	503.2	516.0
47.5°	430.6	438.6	458.0	487.0	503.2
50°	403.2	414.4	438.6	472.6	488.6
52.5°	377.4	387.0	419.4	456.4	475.8
55°	350.0	361.2	400.0	440.2	461.2
57.5°	325.8	335.4	379.0	424.2	448.4
60°	295.2	308.0	358.0	406.4	430.6
62.5°	262.8	282.2	337.0	387.0	412.8
65°	232.2	254.8	317.8	367.6	393.6
67.5°	204.8	229.0	293.6	346.8	371.0
70°	172.6	203.2	269.4	321.0	348.4
72.5°	143.6	177.4	242.0	293.6	317.8
75°	114.6	151.6	214.4	258.0	272.6
77.5°	88.6	124.2	183.8	196.8	198.4
80°	66.2	98.4	137.0	138.6	143.6
82.5°	45.2	69.4	88.6	96.8	98.4
85°	29.0	40.4	50.0	51.6	54.8
87.5°	13.0	14.6	17.8	16.2	16.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)