

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: P271985

Luminaire Tested: **22CZ2-32-UNV-L930-CD1-U**

Issue Date: 3/3/2020

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

Test Information

Test Method: LM-79-08
Report Number: P271985
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-33)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-32-UNV-L930-CD1-U
Description: 2'X2' TROFFER LED MODULE,RIBBED LENS, 90CRI
Light Source: (98) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

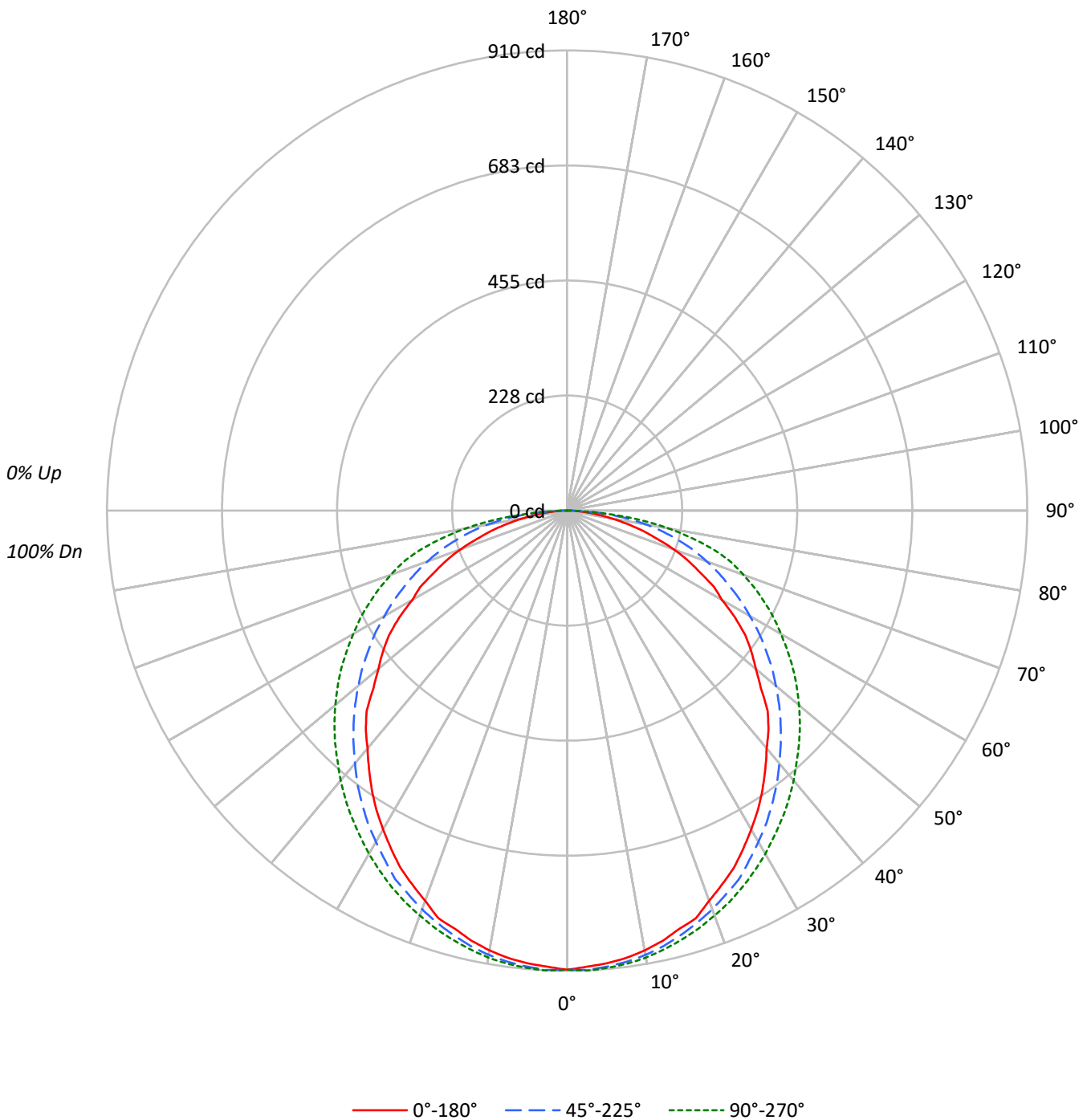
Lumens per Lamp: N/A
Luminaire Lumens: 2706.0 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 26.7
Input Voltage (V): NR
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	93	90	92	89	87	89	86	84	82
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	59	56
4	81	69	60	53	79	67	59	52	65	57	51	62	56	51	60	55	50	48
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	39	51	44	38	49	43	38	36
7	64	50	41	35	62	49	40	34	47	40	34	46	39	34	45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2443	2443	2443
5°	2428	2445	2452
10°	2414	2438	2452
15°	2385	2421	2446
20°	2351	2403	2440
25°	2315	2388	2438
30°	2262	2350	2435
35°	2213	2323	2438
40°	2157	2293	2448
45°	2134	2272	2469
50°	2039	2256	2505
55°	2017	2248	2558
60°	1903	2244	2628
65°	1847	2260	2746
70°	1773	2313	2914
75°	1616	2383	3138
80°	1385	2469	3171
85°	1121	2359	2720



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.9	3.2
10°-20°	245.1	9.1
20°-30°	368.8	13.6
30°-40°	442.7	16.4
40°-50°	462.7	17.1
50°-60°	431.2	15.9
60°-70°	353.7	13.1
70°-80°	238.3	8.8
80°-90°	77.6	2.9
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°	699.8	25.9
0°-40°	1142.5	42.2
0°-60°	2036.4	75.3
0°-90°	2706.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2706.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	908	908	908	908	908	
5°	899	901	905	907	908	85
15°	856	861	869	877	878	242
25°	780	785	804	816	821	358
35°	674	682	707	732	742	421
45°	561	565	597	633	649	428
55°	430	438	479	524	545	381
65°	290	303	355	407	431	289
75°	155	172	229	281	302	163
85°	36	52	76	89	88	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	907.9	907.9	907.9	907.9	907.9
2.5°	902.7	905.3	909.2	910.5	910.5
5°	898.8	901.4	905.3	906.6	907.9
7.5°	892.3	894.9	900.1	902.7	904.0
10°	883.3	885.9	892.3	896.2	897.5
12.5°	871.6	874.2	882.0	887.2	888.5
15°	856.1	861.3	869.0	876.8	878.1
17.5°	845.7	844.4	854.8	863.9	866.4
20°	821.1	827.6	839.2	849.6	852.2
22.5°	800.4	805.6	821.1	832.8	837.9
25°	779.7	784.8	804.3	815.9	821.1
27.5°	753.8	761.5	779.7	796.5	803.0
30°	727.9	735.6	756.4	775.8	783.6
32.5°	702.0	711.0	733.0	753.8	762.8
35°	673.5	682.5	707.1	731.7	742.1
37.5°	643.7	655.3	681.2	708.4	720.1
40°	613.9	625.5	652.7	683.8	696.8
42.5°	589.3	594.5	625.5	659.2	672.2
45°	560.8	564.7	597.1	633.3	648.9
47.5°	519.3	533.6	568.6	608.7	624.3
50°	487.0	502.5	538.8	581.5	598.3
52.5°	459.8	470.1	510.3	553.0	572.4
55°	430.0	437.8	479.2	524.5	545.2
57.5°	393.7	408.0	449.4	496.0	516.8
60°	353.6	371.7	417.0	467.5	488.3
62.5°	327.7	338.0	387.2	437.8	461.1
65°	290.1	303.1	354.9	406.7	431.3
67.5°	259.0	272.0	325.1	376.9	401.5
70°	225.4	238.3	294.0	345.8	370.4
72.5°	186.5	204.6	262.9	314.7	340.6
75°	155.4	172.3	229.2	281.0	301.8
77.5°	120.4	142.5	195.6	238.3	253.8
80°	89.4	111.4	159.3	190.4	204.6
82.5°	60.9	82.9	119.2	142.5	150.2
85°	36.3	51.8	76.4	89.4	88.1
87.5°	16.8	22.0	31.1	31.1	29.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)