

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: P274771

Luminaire Tested: **22CZ2-44-RDP-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: P274771
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-24)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-44-RDP-UNV-L930-CD1-U
Description: 2'X2' TROFFER LED MODULE,SMOOTH LENS WITH INSERT, 90CRI
Light Source: (98) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

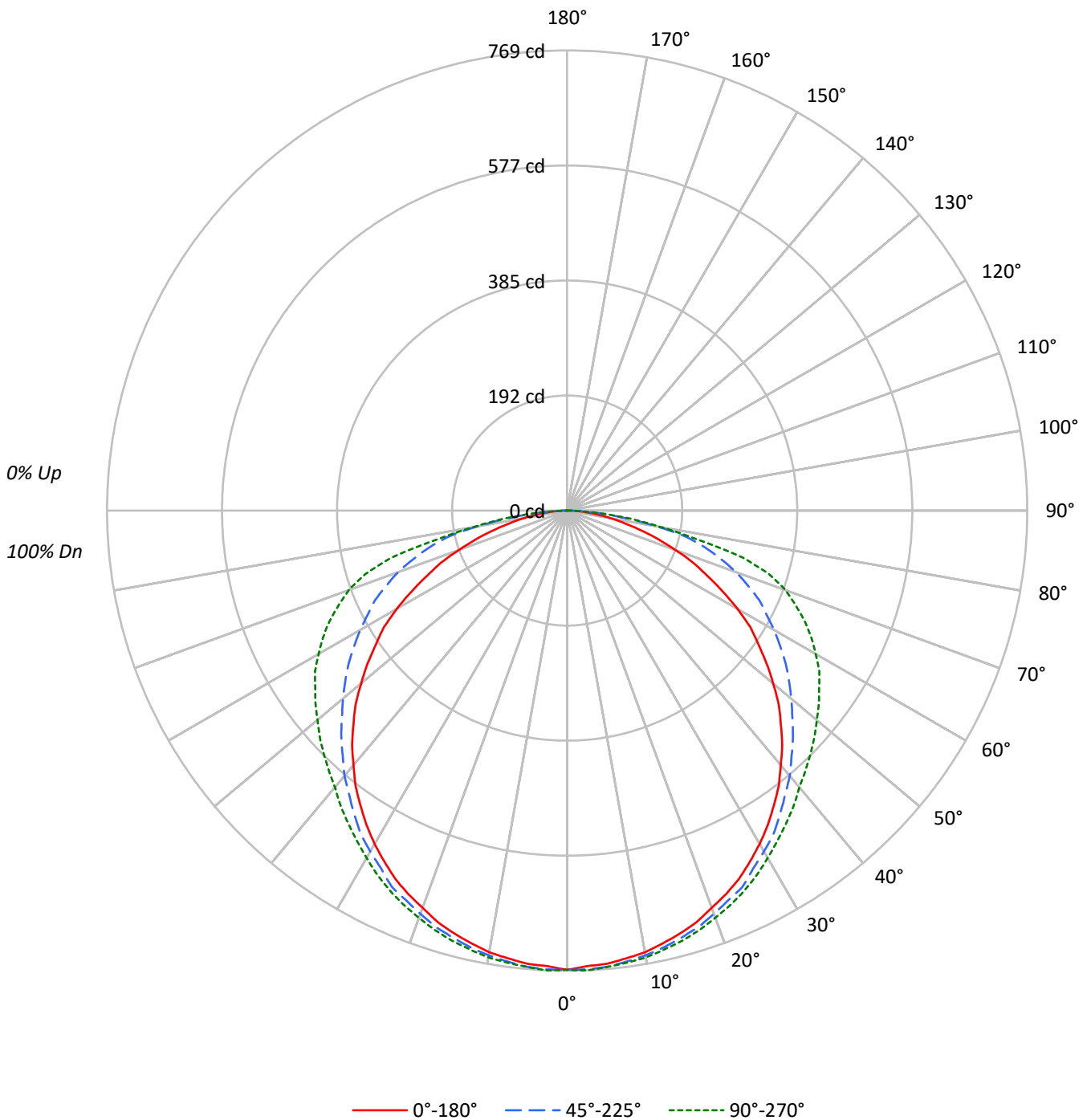
Lumens per Lamp: N/A
Luminaire Lumens: 2443.0 lumens
Efficiency: N/A
Efficacy: 57.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 42.7
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	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°	2065	2065	2065
5°	2053	2068	2068
10°	2048	2062	2072
15°	2038	2058	2073
20°	2023	2054	2074
25°	2017	2060	2081
30°	1999	2044	2083
35°	1978	2037	2096
40°	1951	2033	2121
45°	1922	2031	2189
50°	1881	2046	2280
55°	1830	2091	2411
60°	1770	2147	2582
65°	1648	2254	2792
70°	1513	2361	3054
75°	1327	2485	3158
80°	1142	2368	2478
85°	997	1720	1886



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.6	3.0
10°-20°	208.4	8.5
20°-30°	318.0	13.0
30°-40°	388.3	15.9
40°-50°	415.1	17.0
50°-60°	400.7	16.4
60°-70°	344.9	14.1
70°-80°	233.4	9.6
80°-90°	61.6	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°	599.0	24.5
0°-40°	987.3	40.4
0°-60°	1803.1	73.8
0°-90°	2443.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2443.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	767	767	767	767	767	
5°	760	762	766	766	766	72
15°	731	733	739	742	744	206
25°	679	683	694	697	701	313
35°	602	607	620	633	638	377
45°	505	514	534	561	575	390
55°	390	403	446	491	514	349
65°	259	284	354	410	438	257
75°	128	169	239	288	304	137
85°	32	45	56	58	61	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	767.4	767.4	767.4	767.4	767.4
2.5°	762.0	763.8	767.4	767.4	769.2
5°	760.2	762.0	765.6	765.6	765.6
7.5°	754.8	756.6	760.2	762.0	762.0
10°	749.4	751.2	754.8	756.6	758.4
12.5°	740.4	742.2	747.6	751.2	751.2
15°	731.4	733.2	738.6	742.2	744.0
17.5°	720.7	724.3	729.6	733.2	735.0
20°	706.3	709.9	717.1	722.5	724.3
22.5°	693.7	697.3	704.5	709.9	713.5
25°	679.3	682.9	693.7	697.3	700.9
27.5°	661.4	665.0	673.9	681.1	686.5
30°	643.4	647.0	657.8	666.7	670.3
32.5°	623.6	629.0	641.6	648.8	654.2
35°	602.0	607.4	620.0	632.6	638.0
37.5°	580.5	585.9	598.5	614.6	621.8
40°	555.3	562.5	578.7	600.3	603.8
42.5°	532.0	540.9	555.3	580.5	589.5
45°	505.0	514.0	533.8	560.7	575.1
47.5°	479.8	488.8	510.4	542.7	560.7
50°	449.3	461.9	488.8	526.6	544.5
52.5°	420.5	431.3	467.3	508.6	530.2
55°	390.0	402.6	445.7	490.6	514.0
57.5°	363.0	373.8	422.3	472.7	499.6
60°	328.9	343.3	399.0	452.9	479.8
62.5°	292.9	314.5	375.6	431.3	460.1
65°	258.8	284.0	354.0	409.8	438.5
67.5°	228.2	255.2	327.1	386.4	413.3
70°	192.3	226.4	300.1	357.6	388.2
72.5°	159.9	197.7	269.6	327.1	354.0
75°	127.6	168.9	239.0	287.5	303.7
77.5°	98.8	138.4	204.9	219.3	221.1
80°	73.7	109.6	152.8	154.6	159.9
82.5°	50.3	77.3	98.8	107.8	109.6
85°	32.3	44.9	55.7	57.5	61.1
87.5°	14.4	16.2	19.8	18.0	18.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)