

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: P272029

Luminaire Tested: **22CZ2-32-S-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: P272029
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-23)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-32-S-UNV-L930-CD1-U
Description: 2'X2' TROFFER LED MODULE,SMOOTH LENS, 90CRI
Light Source: (98) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

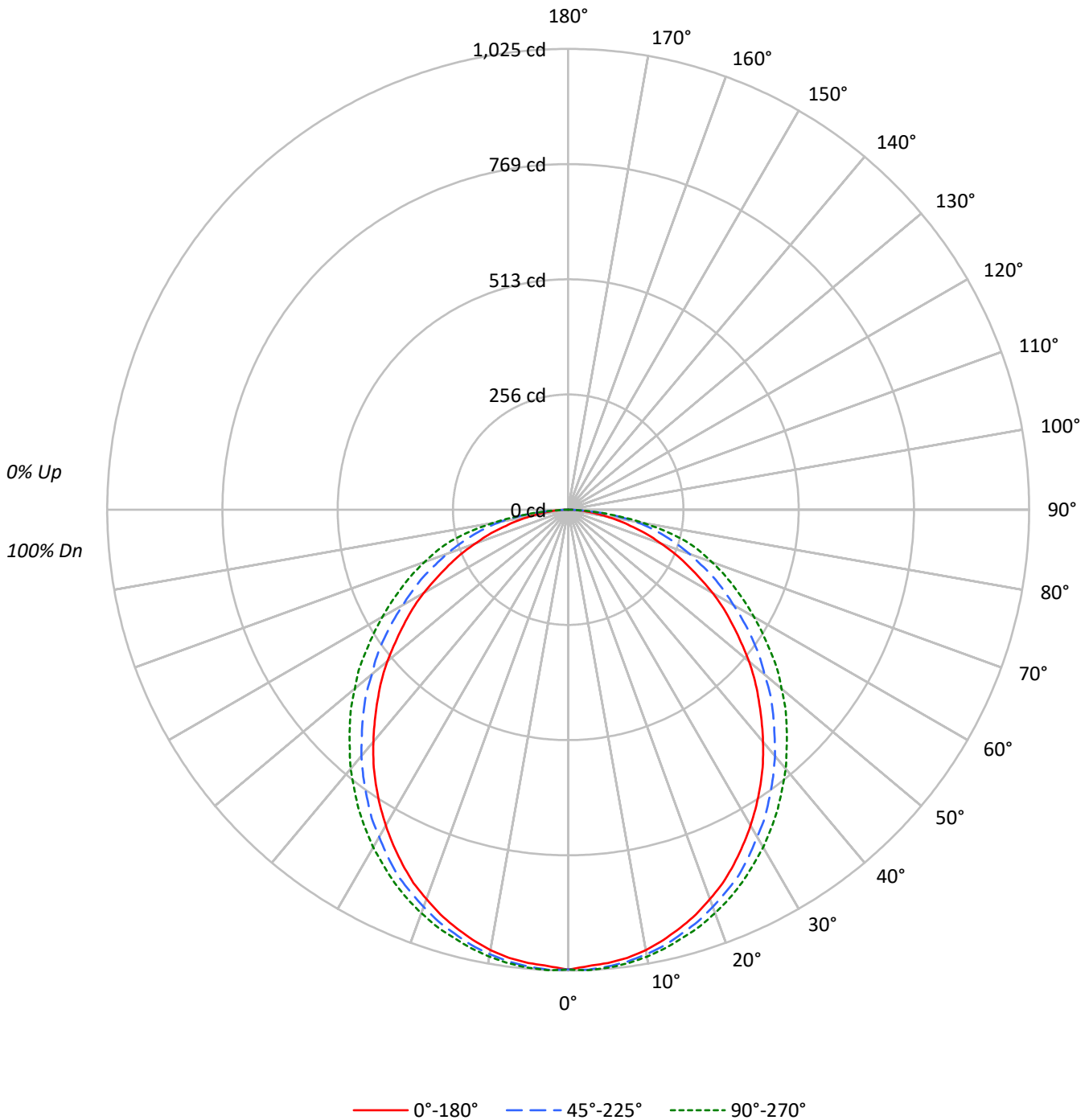
Lumens per Lamp: N/A
Luminaire Lumens: 2854.0 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.26 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	61	56	52	49
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	41	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27
10	53	40	32	26	51	39	31	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2752	2752	2752
5°	2734	2755	2763
10°	2718	2743	2758
15°	2682	2719	2745
20°	2639	2692	2734
25°	2586	2665	2716
30°	2520	2611	2694
35°	2450	2563	2668
40°	2367	2512	2643
45°	2280	2453	2615
50°	2197	2386	2592
55°	2093	2343	2574
60°	1999	2286	2566
65°	1866	2273	2595
70°	1718	2253	2672
75°	1550	2284	2810
80°	1342	2352	2641
85°	1112	1973	1973



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.7	3.4
10°-20°	275.2	9.6
20°-30°	411.8	14.4
30°-40°	487.7	17.1
40°-50°	497.0	17.4
50°-60°	445.5	15.6
60°-70°	348.8	12.2
70°-80°	224.9	7.9
80°-90°	66.4	2.3
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°	783.8	27.5
0°-40°	1271.4	44.5
0°-60°	2213.9	77.6
0°-90°	2854.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2854.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1023	1023	1023	1023	1023	
5°	1012	1015	1020	1021	1023	96
15°	963	968	976	984	985	271
25°	871	879	898	910	915	401
35°	746	755	780	804	812	466
45°	599	612	644	678	687	463
55°	446	461	499	534	549	400
65°	293	310	357	392	408	291
75°	149	172	220	257	270	160
85°	36	49	64	64	64	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1022.7	1022.7	1022.7	1022.7	1022.7
2.5°	1016.0	1018.7	1024.0	1025.3	1025.3
5°	1012.0	1014.7	1020.0	1021.3	1022.7
7.5°	1005.4	1006.7	1013.4	1016.0	1017.4
10°	994.7	997.4	1004.0	1008.0	1009.4
12.5°	980.1	984.1	992.1	997.4	998.7
15°	962.8	968.1	976.1	984.1	985.4
17.5°	944.1	949.4	960.1	969.4	972.1
20°	921.5	928.1	940.1	950.8	954.8
22.5°	898.8	904.2	918.8	932.1	936.1
25°	870.9	878.9	897.5	909.5	914.8
27.5°	841.6	850.9	869.5	885.5	890.8
30°	811.0	820.3	840.2	860.2	866.9
32.5°	779.0	789.6	813.6	833.6	840.2
35°	745.7	755.0	780.3	804.3	812.3
37.5°	711.1	719.1	748.4	773.7	781.7
40°	673.8	684.4	715.1	744.4	752.4
42.5°	636.5	648.5	679.1	711.1	719.1
45°	599.2	612.5	644.5	677.8	687.1
47.5°	563.3	573.9	609.9	641.8	655.2
50°	524.7	535.3	569.9	605.9	619.2
52.5°	484.7	499.4	536.6	571.3	587.2
55°	446.1	460.7	499.4	534.0	548.6
57.5°	410.1	422.1	462.1	498.0	512.7
60°	371.5	382.2	424.8	463.4	476.7
62.5°	330.2	346.2	390.2	426.1	442.1
65°	293.0	310.3	356.9	391.5	407.5
67.5°	258.3	274.3	319.6	356.9	374.2
70°	218.4	239.7	286.3	323.6	339.6
72.5°	186.4	205.1	253.0	290.3	307.6
75°	149.1	171.8	219.7	257.0	270.3
77.5°	118.5	141.2	186.4	215.7	222.4
80°	86.6	109.2	151.8	166.5	170.4
82.5°	58.6	79.9	109.2	113.2	114.5
85°	36.0	49.3	63.9	63.9	63.9
87.5°	17.3	20.0	22.6	21.3	21.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)