

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: P271937

Luminaire Tested: **14CZ2-29-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: P271937
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-40)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-29-S-UNV-L930-CD1-U
Description: 1'X4' TROFFER LED MODULE,SMOOTH LENS, 90CRI
Light Source: (84) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

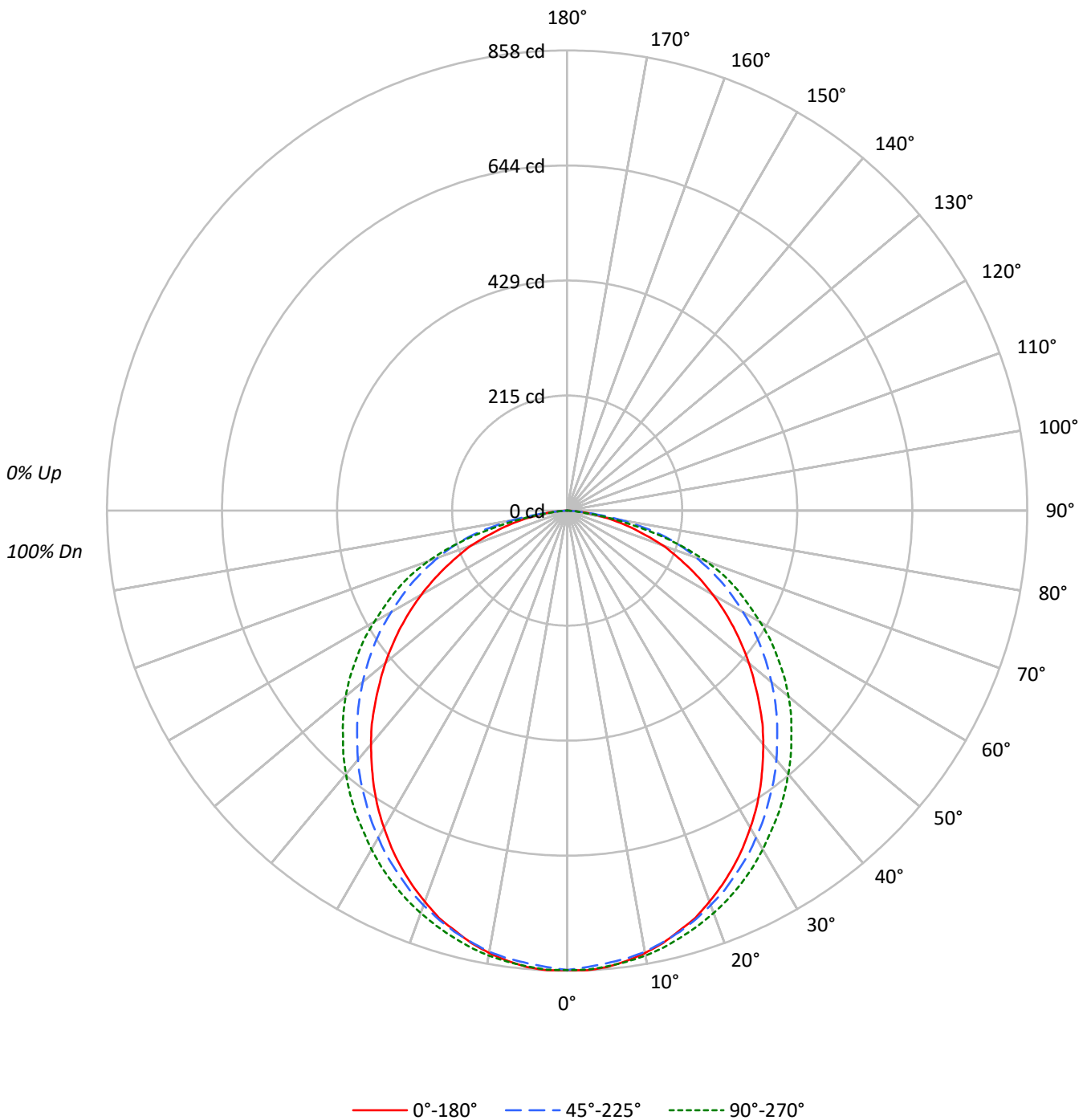
Lumens per Lamp: N/A
Luminaire Lumens: 2400.0 lumens
Efficiency: N/A
Efficacy: 98.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 24.3
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	109	104	100	96	106	102	98	94	97	94	91	94	91	89	90	88	86	84
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	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	52	39	31	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2306	2306	2306
5°	2308	2289	2305
10°	2289	2282	2302
15°	2258	2264	2294
20°	2222	2242	2287
25°	2176	2215	2279
30°	2122	2189	2266
35°	2064	2158	2259
40°	1998	2132	2253
45°	1925	2106	2251
50°	1853	2082	2256
55°	1775	2066	2250
60°	1690	2037	2235
65°	1591	2031	2235
70°	1498	2013	2172
75°	1299	1967	1856
80°	1051	1585	1235
85°	698	550	367



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.9	3.4
10°-20°	230.2	9.6
20°-30°	345.3	14.4
30°-40°	411.9	17.2
40°-50°	425.9	17.7
50°-60°	388.8	16.2
60°-70°	306.0	12.7
70°-80°	178.1	7.4
80°-90°	32.8	1.4
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°	656.5	27.4
0°-40°	1068.4	44.5
0°-60°	1883.1	78.5
0°-90°	2400.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2400.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	857	857	857	857	857	
5°	854	852	847	854	853	81
15°	810	812	813	823	823	229
25°	733	737	746	764	768	337
35°	628	637	657	682	688	393
45°	506	522	553	584	591	391
55°	378	399	440	472	480	338
65°	250	276	319	344	351	248
75°	125	155	189	186	178	133
85°	23	32	18	14	12	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	856.8	856.8	856.8	856.8	856.8
2.5°	858.0	855.6	852.0	858.0	856.8
5°	854.4	852.0	847.2	854.4	853.2
7.5°	847.2	844.9	842.5	849.6	848.4
10°	837.7	836.5	835.3	843.7	842.5
12.5°	825.8	825.8	824.6	834.2	834.2
15°	810.4	811.5	812.7	823.4	823.4
17.5°	796.1	794.9	798.5	810.4	811.5
20°	775.8	778.2	783.0	797.3	798.5
22.5°	755.6	758.0	766.3	780.6	784.2
25°	733.0	736.6	746.1	763.9	767.5
27.5°	709.2	714.0	727.1	746.1	749.7
30°	683.0	690.2	704.4	725.9	729.4
32.5°	656.8	664.0	681.8	703.3	708.0
35°	628.3	636.6	656.8	681.8	687.8
37.5°	598.5	609.3	633.1	658.0	665.2
40°	568.8	580.7	606.9	633.1	641.4
42.5°	539.0	550.9	579.5	609.3	617.6
45°	505.7	522.4	553.3	584.3	591.4
47.5°	473.6	491.4	526.0	556.9	566.4
50°	442.7	460.5	497.4	529.5	539.0
52.5°	410.5	429.6	468.8	502.2	510.5
55°	378.4	398.6	440.3	472.4	479.5
57.5°	346.3	367.7	410.5	441.5	449.8
60°	314.1	336.8	378.4	409.3	415.3
62.5°	282.0	305.8	348.7	376.0	382.0
65°	249.9	276.1	318.9	343.9	351.0
67.5°	218.9	245.1	286.8	310.6	316.5
70°	190.4	214.2	255.8	273.7	276.1
72.5°	154.7	184.4	224.9	234.4	228.5
75°	124.9	154.7	189.2	185.6	178.5
77.5°	95.2	124.9	147.6	135.7	126.1
80°	67.8	97.6	102.3	84.5	79.7
82.5°	44.0	67.8	57.1	44.0	35.7
85°	22.6	32.1	17.8	14.3	11.9
87.5°	7.1	4.8	2.4	2.4	1.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)