

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: P475386

Luminaire Tested: **14CZ2-20-S-UNV-L835-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P475386  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 02/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14CZ2-20-S-UNV-L835-CD1-U  
Description: 1'X4' TROFFER LED MODULE, SMOOTH LENS  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

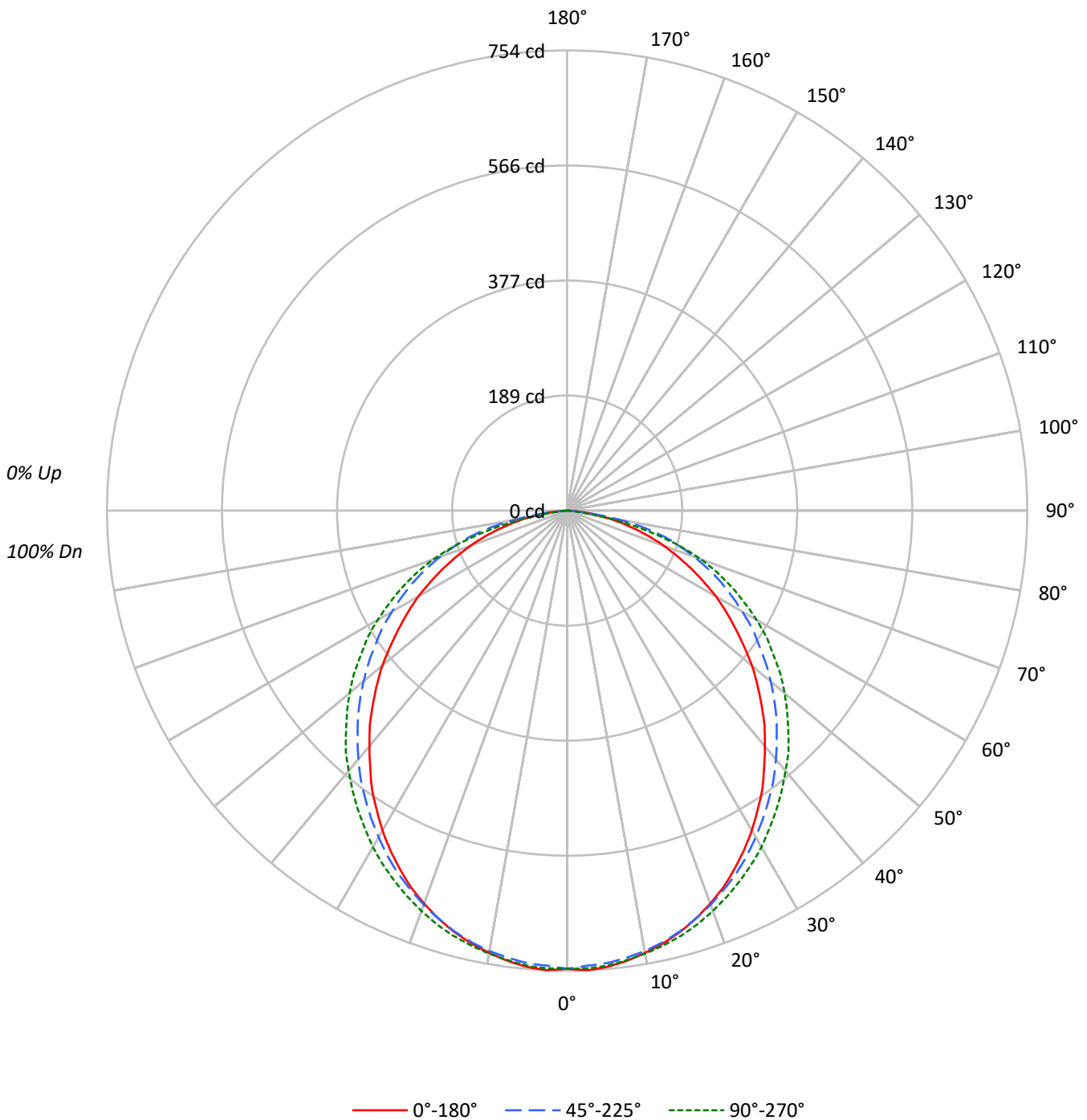
Lumens per Lamp: N/A  
Luminaire Lumens: 2098.4 lumens  
Efficiency: N/A  
Efficacy: 134.5 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.36  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 15.6  
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	109	104	100	96	106	102	98	94	98	94	91	94	91	89	90	88	86	84
2	99	91	84	78	96	89	82	77	85	80	75	82	77	74	79	75	72	70
3	90	79	71	65	88	78	70	64	75	68	63	72	67	62	70	65	61	59
4	82	70	61	55	80	69	61	54	66	59	54	64	58	53	62	57	52	50
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43
6	70	57	48	41	68	56	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	36	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	29	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°	2020	2020	2020
5°	2028	2011	2022
10°	2011	2002	2014
15°	1991	1989	2009
20°	1962	1968	1999
25°	1925	1947	1988
30°	1881	1920	1979
35°	1832	1895	1964
40°	1770	1870	1956
45°	1713	1846	1950
50°	1655	1823	1947
55°	1578	1801	1934
60°	1515	1782	1929
65°	1423	1772	1900
70°	1327	1742	1833
75°	1173	1710	1546
80°	948	1389	914
85°	682	392	99



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	71.0	3.4
10°-20°	202.1	9.6
20°-30°	303.3	14.5
30°-40°	361.5	17.2
40°-50°	373.3	17.8
50°-60°	340.0	16.2
60°-70°	266.4	12.7
70°-80°	154.1	7.3
80°-90°	26.8	1.3
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°	576.4	27.5
0°-40°	937.9	44.7
0°-60°	1651.1	78.7
0°-90°	2098.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2098.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	751	751	751	751	751	
5°	751	749	744	750	749	71
15°	715	714	714	721	721	201
25°	648	650	656	668	670	299
35°	558	563	577	595	598	348
45°	450	462	485	507	512	348
55°	336	353	384	408	412	301
65°	224	244	278	296	298	222
75°	113	137	164	159	149	120
85°	22	30	13	4	3	27
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	750.7	750.7	750.7	750.7	750.7
2.5°	753.9	750.7	746.5	750.7	750.7
5°	750.7	748.6	744.4	749.6	748.6
7.5°	744.4	742.3	739.1	744.4	743.3
10°	735.9	734.9	732.8	739.1	737.0
12.5°	726.4	725.4	724.3	730.7	729.6
15°	714.8	713.8	713.8	721.2	721.2
17.5°	701.1	701.1	701.1	710.6	710.6
20°	685.3	685.3	687.4	698.0	698.0
22.5°	668.5	668.5	671.6	683.2	684.3
25°	648.4	650.5	655.8	668.5	669.5
27.5°	627.3	630.5	637.9	651.6	653.7
30°	605.2	608.4	617.8	633.7	636.8
32.5°	580.9	586.2	597.8	613.6	616.8
35°	557.7	563.0	576.7	594.6	597.8
37.5°	530.3	538.8	555.6	572.5	577.8
40°	504.0	513.5	532.4	552.5	556.7
42.5°	478.7	487.1	508.2	530.3	536.7
45°	450.2	461.8	485.0	507.1	512.4
47.5°	422.8	434.4	460.7	483.9	489.2
50°	395.4	407.0	435.4	458.6	465.0
52.5°	364.8	381.7	410.1	433.3	440.7
55°	336.3	353.2	383.8	408.0	412.2
57.5°	308.9	325.8	359.5	381.7	388.0
60°	281.5	298.4	331.1	353.2	358.5
62.5°	252.0	271.0	304.7	323.7	327.9
65°	223.5	243.6	278.3	296.3	298.4
67.5°	195.1	216.1	249.9	264.6	266.7
70°	168.7	189.8	221.4	235.1	233.0
72.5°	141.3	162.4	192.9	200.3	194.0
75°	112.8	137.1	164.5	159.2	148.7
77.5°	87.5	110.7	128.6	112.8	104.4
80°	61.2	85.4	89.6	69.6	59.0
82.5°	40.1	60.1	48.5	29.5	26.4
85°	22.1	29.5	12.7	4.2	3.2
87.5°	7.4	4.2	2.1	1.1	1.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)