

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: P558452

Luminaire Tested: **22CBRK-31-UNV-L835-CD1-U**

Issue Date: 7/20/2021



Test Information

Test Method: LM-79-08
Report Number: P558452
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2105-259-1)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 7/20/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CBRK-31-UNV-L835-CD1-U
Description: 2X2 3100 LUMEN, LED TROFFER RETROFIT KIT WITH 3500K AND 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

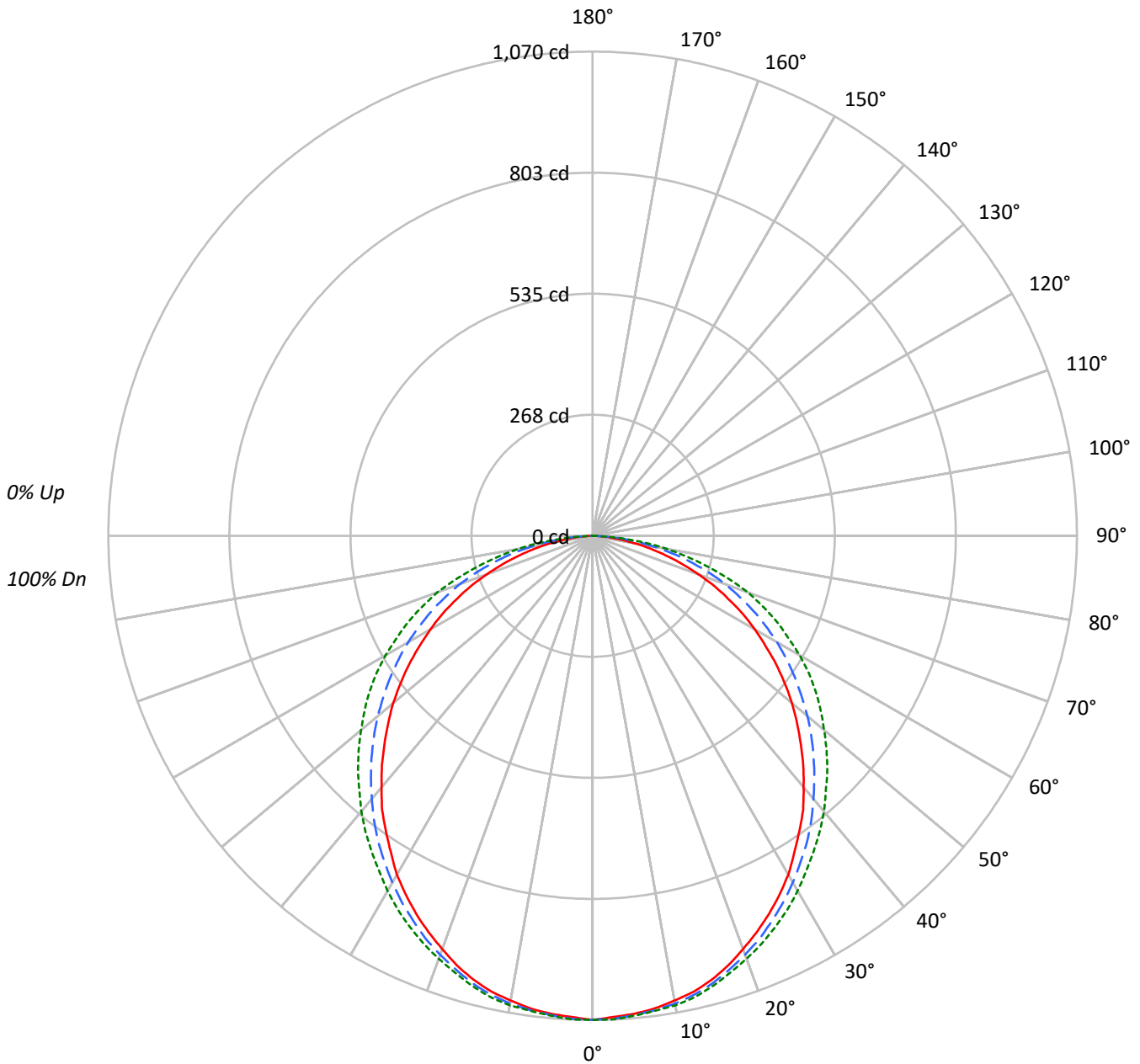
Lumens per Lamp: N/A
Luminaire Lumens: 3039.0 lumens
Efficiency: N/A
Efficacy: 142.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 21.3
Input Voltage (V): NR
Input Current (A_{in}): 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									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	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	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83																			
2	98	90	83	77	96	88	82	76	85	79	75	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	68	60	54	66	59	53	64	57	52	61	56	51	49																			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43																			
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37																			
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33																			
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29																			
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26																			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2879	2879	2879
5°	2864	2871	2875
10°	2850	2868	2879
15°	2830	2853	2868
20°	2783	2821	2848
25°	2738	2786	2834
30°	2687	2749	2816
35°	2616	2712	2796
40°	2547	2665	2792
45°	2474	2627	2790
50°	2407	2593	2794
55°	2320	2560	2824
60°	2229	2532	2842
65°	2108	2492	2859
70°	1951	2447	2869
75°	1743	2328	2731
80°	1433	2098	2576
85°	911	1738	1945



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.0	3.3
10°-20°	288.4	9.5
20°-30°	432.4	14.2
30°-40°	516.0	17.0
40°-50°	533.5	17.6
50°-60°	488.8	16.1
60°-70°	385.9	12.7
70°-80°	232.3	7.6
80°-90°	60.7	2.0
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°	821.8	27.0
0°-40°	1337.8	44.0
0°-60°	2360.1	77.7
0°-90°	3039.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3039.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1070	1070	1070	1070	1070	
5°	1060	1060	1063	1064	1064	101
15°	1016	1017	1024	1028	1030	286
25°	922	926	938	950	954	425
35°	796	804	826	844	851	499
45°	650	661	690	720	733	502
55°	495	508	546	586	602	442
65°	331	347	391	432	449	329
75°	168	186	224	253	263	178
85°	30	40	56	64	63	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1069.7	1069.7	1069.7	1069.7	1069.7
2.5°	1064.3	1065.6	1068.3	1069.7	1069.7
5°	1060.3	1060.3	1063.0	1064.3	1064.3
7.5°	1053.6	1054.9	1057.6	1058.9	1058.9
10°	1042.9	1045.5	1049.6	1053.6	1053.6
12.5°	1032.1	1033.5	1038.8	1042.9	1044.2
15°	1016.0	1017.4	1024.1	1028.1	1029.5
17.5°	995.9	998.6	1005.3	1012.0	1012.0
20°	971.8	975.8	985.2	991.9	994.6
22.5°	947.7	953.0	963.8	971.8	975.8
25°	922.2	926.2	938.3	950.4	954.4
27.5°	894.1	898.1	912.8	927.6	931.6
30°	864.6	869.9	884.7	899.4	906.1
32.5°	829.7	837.8	855.2	874.0	878.0
35°	796.2	804.3	825.7	844.5	851.2
37.5°	764.0	769.4	793.5	816.3	824.4
40°	725.2	734.6	758.7	784.2	794.9
42.5°	689.0	698.4	725.2	753.3	762.7
45°	650.1	660.8	690.3	719.8	733.2
47.5°	612.6	626.0	655.5	689.0	701.0
50°	575.0	587.1	619.3	654.1	667.5
52.5°	534.8	546.9	581.7	620.6	635.4
55°	494.6	508.0	545.6	585.8	601.9
57.5°	453.1	469.2	508.0	549.6	567.0
60°	414.2	427.6	470.5	512.0	528.1
62.5°	374.0	388.7	430.3	471.8	486.6
65°	331.1	347.2	391.4	431.6	449.0
67.5°	292.2	307.0	351.2	391.4	406.2
70°	248.0	266.7	311.0	348.5	364.6
72.5°	207.8	226.5	268.1	301.6	313.7
75°	167.6	186.3	223.9	253.3	262.7
77.5°	130.0	147.4	181.0	205.1	213.1
80°	92.5	109.9	135.4	158.2	166.2
82.5°	59.0	73.7	95.2	111.3	115.3
85°	29.5	40.2	56.3	64.3	63.0
87.5°	9.4	12.1	16.1	13.4	12.1
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)