

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: P558455

Luminaire Tested: **22CBRK-31-UNV-L840-CD1-U**

Issue Date: 7/20/2021



Test Information

Test Method: LM-79-08
Report Number: P558455
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-L840-CD1-U
Description: 2X2 3100 LUMEN, LED TROFFER RETROFIT KIT WITH 4000K AND 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

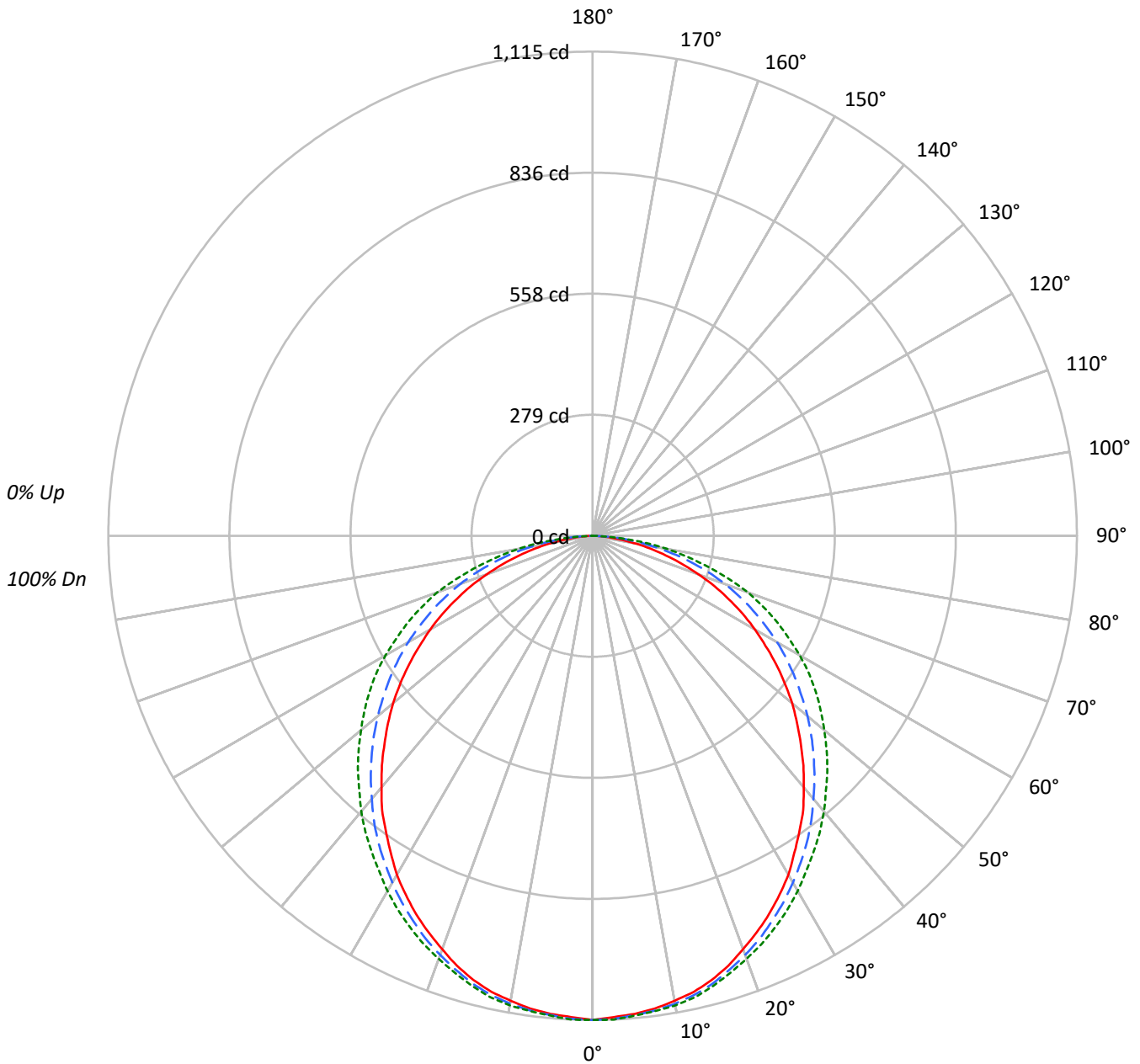
Lumens per Lamp: N/A
Luminaire Lumens: 3168.0 lumens
Efficiency: N/A
Efficacy: 148.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P558455

CATALOG NUMBER: 22CBRK-31-UNV-L840-CD1-U

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°	3001	3001	3001
5°	2986	2993	2997
10°	2970	2990	3001
15°	2951	2974	2990
20°	2901	2941	2969
25°	2855	2904	2954
30°	2801	2866	2935
35°	2727	2828	2915
40°	2656	2778	2911
45°	2579	2739	2909
50°	2510	2703	2913
55°	2419	2668	2943
60°	2324	2640	2963
65°	2197	2598	2981
70°	2034	2551	2991
75°	1816	2427	2848
80°	1494	2187	2686
85°	948	1812	2029



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.3	3.3
10°-20°	300.6	9.5
20°-30°	450.7	14.2
30°-40°	537.9	17.0
40°-50°	556.1	17.6
50°-60°	509.6	16.1
60°-70°	402.3	12.7
70°-80°	242.1	7.6
80°-90°	63.3	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°	856.7	27.0
0°-40°	1394.6	44.0
0°-60°	2460.3	77.7
0°-90°	3168.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3168.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1115	1115	1115	1115	1115	
5°	1105	1105	1108	1110	1110	105
15°	1059	1061	1068	1072	1073	298
25°	961	966	978	991	995	443
35°	830	838	861	880	887	520
45°	678	689	720	750	764	523
55°	516	530	569	611	627	461
65°	345	362	408	450	468	343
75°	175	194	233	264	274	186
85°	31	42	59	67	66	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1115.1	1115.1	1115.1	1115.1	1115.1
2.5°	1109.5	1110.9	1113.7	1115.1	1115.1
5°	1105.3	1105.3	1108.1	1109.5	1109.5
7.5°	1098.3	1099.7	1102.5	1103.9	1103.9
10°	1087.1	1089.9	1094.1	1098.3	1098.3
12.5°	1075.9	1077.3	1082.9	1087.1	1088.5
15°	1059.2	1060.6	1067.6	1071.8	1073.1
17.5°	1038.2	1041.0	1048.0	1055.0	1055.0
20°	1013.1	1017.3	1027.0	1034.0	1036.8
22.5°	987.9	993.5	1004.7	1013.1	1017.3
25°	961.4	965.6	978.1	990.7	994.9
27.5°	932.0	936.2	951.6	967.0	971.1
30°	901.3	906.9	922.2	937.6	944.6
32.5°	864.9	873.3	891.5	911.1	915.3
35°	830.0	838.4	860.8	880.3	887.3
37.5°	796.5	802.1	827.2	851.0	859.4
40°	756.0	765.7	790.9	817.4	828.6
42.5°	718.2	728.0	756.0	785.3	795.1
45°	677.7	688.9	719.6	750.4	764.3
47.5°	638.6	652.6	683.3	718.2	730.8
50°	599.5	612.0	645.6	681.9	695.9
52.5°	557.5	570.1	606.4	647.0	662.3
55°	515.6	529.6	568.7	610.6	627.4
57.5°	472.3	489.1	529.6	572.9	591.1
60°	431.8	445.7	490.5	533.8	550.5
62.5°	389.9	405.2	448.5	491.9	507.2
65°	345.1	361.9	408.0	449.9	468.1
67.5°	304.6	320.0	366.1	408.0	423.4
70°	258.5	278.1	324.2	363.3	380.1
72.5°	216.6	236.1	279.5	314.4	327.0
75°	174.7	194.2	233.4	264.1	273.9
77.5°	135.5	153.7	188.6	213.8	222.2
80°	96.4	114.6	141.1	164.9	173.3
82.5°	61.5	76.9	99.2	116.0	120.2
85°	30.7	41.9	58.7	67.1	65.7
87.5°	9.8	12.6	16.8	14.0	12.6
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)