

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: P558458

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

Issue Date: 7/20/2021



Test Information

Test Method: LM-79-08
Report Number: P558458
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-31HE-UNV-L835-CD1-U
Description: 2X2 3100 LUMEN, HIGH EFFICACY, LED TROFFER RETROFIT KIT WITH 3500K AND 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

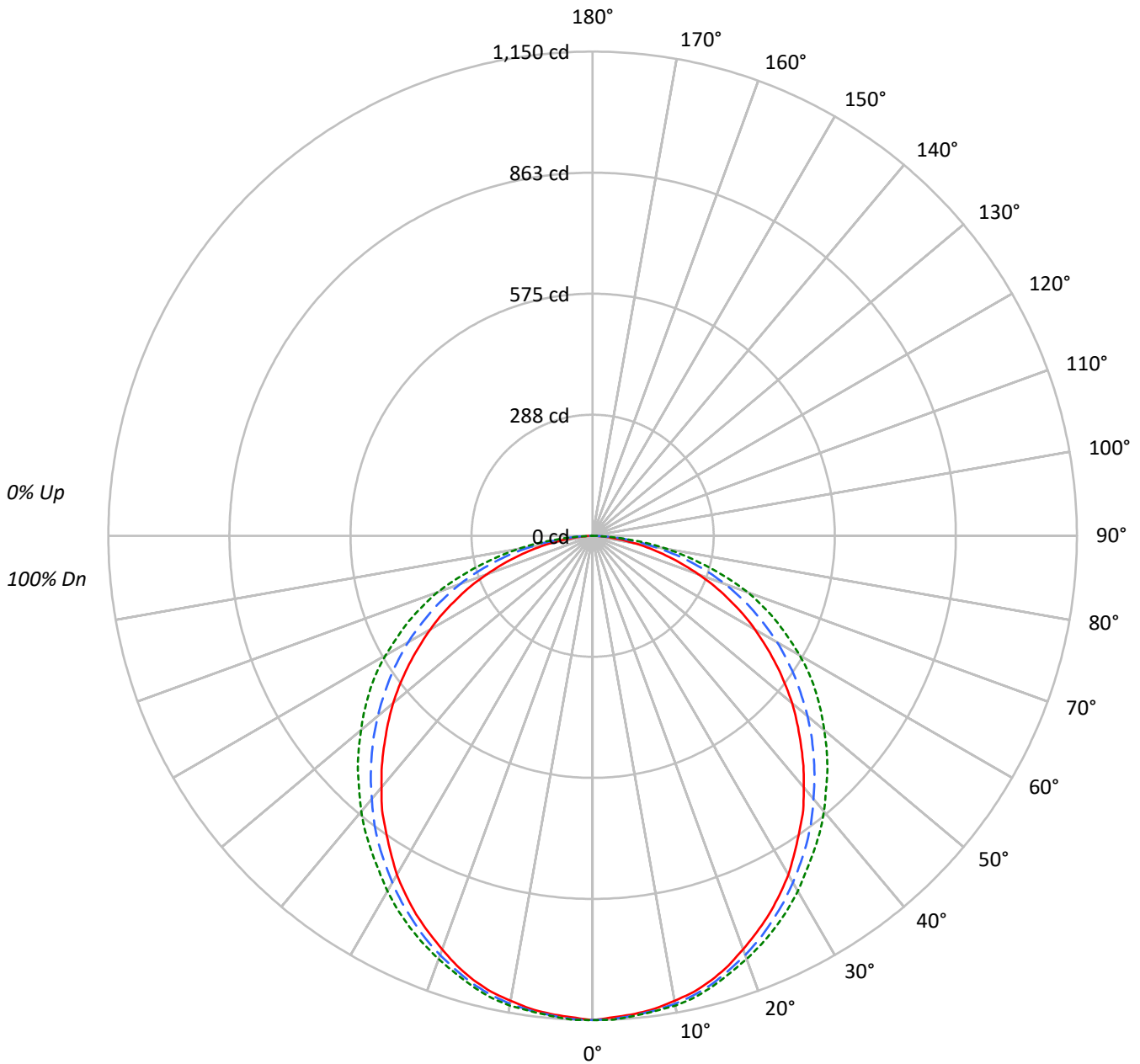
Lumens per Lamp: N/A
Luminaire Lumens: 3268.0 lumens
Efficiency: N/A
Efficacy: 155.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 21
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°	3095	3095	3095
5°	3080	3088	3092
10°	3064	3084	3096
15°	3044	3068	3084
20°	2993	3034	3063
25°	2945	2996	3047
30°	2889	2956	3028
35°	2813	2917	3007
40°	2739	2866	3003
45°	2661	2825	3001
50°	2589	2788	3005
55°	2495	2753	3036
60°	2397	2723	3056
65°	2267	2680	3075
70°	2098	2631	3085
75°	1874	2503	2937
80°	1542	2256	2769
85°	979	1868	2090



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.6	3.3
10°-20°	310.1	9.5
20°-30°	465.0	14.2
30°-40°	554.9	17.0
40°-50°	573.7	17.6
50°-60°	525.6	16.1
60°-70°	415.0	12.7
70°-80°	249.8	7.6
80°-90°	65.3	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°	883.7	27.0
0°-40°	1438.6	44.0
0°-60°	2537.9	77.7
0°-90°	3268.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3268.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1150	1150	1150	1150	1150	
5°	1140	1140	1143	1144	1144	108
15°	1093	1094	1101	1106	1107	308
25°	992	996	1009	1022	1026	457
35°	856	865	888	908	915	536
45°	699	711	742	774	788	540
55°	532	546	587	630	647	475
65°	356	373	421	464	483	353
75°	180	200	241	272	282	191
85°	32	43	60	69	68	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1150.3	1150.3	1150.3	1150.3	1150.3
2.5°	1144.5	1145.9	1148.8	1150.3	1150.3
5°	1140.2	1140.2	1143.1	1144.5	1144.5
7.5°	1133.0	1134.4	1137.3	1138.7	1138.7
10°	1121.4	1124.3	1128.6	1133.0	1133.0
12.5°	1109.9	1111.3	1117.1	1121.4	1122.9
15°	1092.6	1094.1	1101.3	1105.6	1107.0
17.5°	1071.0	1073.9	1081.1	1088.3	1088.3
20°	1045.0	1049.4	1059.5	1066.7	1069.5
22.5°	1019.1	1024.9	1036.4	1045.0	1049.4
25°	991.7	996.0	1009.0	1022.0	1026.3
27.5°	961.4	965.8	981.6	997.5	1001.8
30°	929.7	935.5	951.3	967.2	974.4
32.5°	892.2	900.9	919.6	939.8	944.1
35°	856.2	864.9	887.9	908.1	915.3
37.5°	821.6	827.4	853.3	877.8	886.5
40°	779.8	789.9	815.9	843.2	854.8
42.5°	740.9	751.0	779.8	810.1	820.2
45°	699.1	710.6	742.3	774.1	788.5
47.5°	658.7	673.2	704.9	740.9	753.9
50°	618.4	631.3	665.9	703.4	717.8
52.5°	575.1	588.1	625.6	667.4	683.2
55°	531.9	546.3	586.7	629.9	647.2
57.5°	487.2	504.5	546.3	591.0	609.7
60°	445.4	459.8	505.9	550.6	567.9
62.5°	402.2	418.0	462.7	507.4	523.2
65°	356.0	373.3	420.9	464.1	482.9
67.5°	314.2	330.1	377.7	420.9	436.8
70°	266.7	286.8	334.4	374.8	392.1
72.5°	223.4	243.6	288.3	324.3	337.3
75°	180.2	200.4	240.7	272.4	282.5
77.5°	139.8	158.6	194.6	220.5	229.2
80°	99.5	118.2	145.6	170.1	178.7
82.5°	63.4	79.3	102.3	119.6	124.0
85°	31.7	43.2	60.5	69.2	67.7
87.5°	10.1	13.0	17.3	14.4	13.0
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)