

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: P558449

Luminaire Tested: **22CBRK-21-UNV-L840-CD1-U**

Issue Date: 7/20/2021



Test Information

Test Method: LM-79-08
Report Number: P558449
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-21-UNV-L840-CD1-U
Description: 2X2 2100 LUMEN, LED TROFFER RETROFIT KIT WITH 4000K AND 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

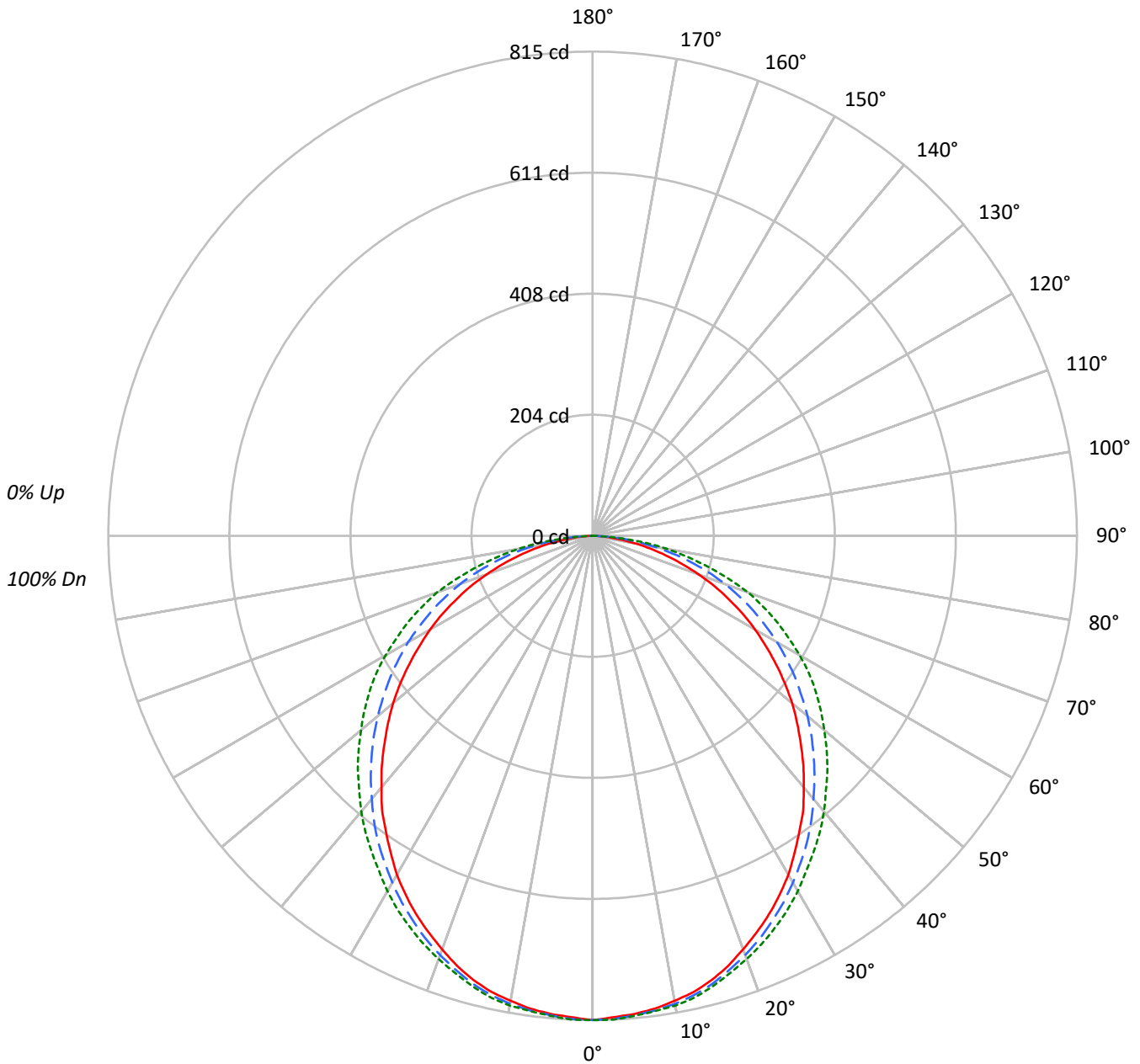
Lumens per Lamp: N/A
Luminaire Lumens: 2316.0 lumens
Efficiency: N/A
Efficacy: 154.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 15
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°	2194	2194	2194
5°	2183	2188	2191
10°	2172	2186	2194
15°	2157	2174	2186
20°	2121	2150	2171
25°	2087	2123	2159
30°	2047	2095	2146
35°	1993	2067	2131
40°	1941	2031	2128
45°	1885	2002	2127
50°	1834	1976	2130
55°	1768	1951	2152
60°	1699	1930	2166
65°	1606	1899	2179
70°	1487	1865	2186
75°	1328	1774	2082
80°	1093	1599	1963
85°	695	1325	1482



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.0	3.3
10°-20°	219.8	9.5
20°-30°	329.5	14.2
30°-40°	393.2	17.0
40°-50°	406.6	17.6
50°-60°	372.5	16.1
60°-70°	294.1	12.7
70°-80°	177.0	7.6
80°-90°	46.3	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°	626.3	27.0
0°-40°	1019.5	44.0
0°-60°	1798.6	77.7
0°-90°	2316.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2316.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	815	815	815	815	815	
5°	808	808	810	811	811	77
15°	774	775	780	784	784	218
25°	703	706	715	724	727	324
35°	607	613	629	644	649	380
45°	495	504	526	549	559	383
55°	377	387	416	446	459	337
65°	252	265	298	329	342	250
75°	128	142	171	193	200	136
85°	22	31	43	49	48	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	815.2	815.2	815.2	815.2	815.2
2.5°	811.1	812.1	814.2	815.2	815.2
5°	808.0	808.0	810.1	811.1	811.1
7.5°	802.9	803.9	806.0	807.0	807.0
10°	794.8	796.8	799.9	802.9	802.9
12.5°	786.6	787.6	791.7	794.8	795.8
15°	774.3	775.3	780.5	783.5	784.5
17.5°	759.0	761.0	766.1	771.3	771.3
20°	740.6	743.7	750.8	755.9	758.0
22.5°	722.2	726.3	734.5	740.6	743.7
25°	702.8	705.9	715.1	724.3	727.3
27.5°	681.4	684.4	695.7	706.9	710.0
30°	658.9	663.0	674.2	685.4	690.6
32.5°	632.3	638.5	651.7	666.0	669.1
35°	606.8	612.9	629.3	643.6	648.7
37.5°	582.3	586.4	604.7	622.1	628.2
40°	552.6	559.8	578.2	597.6	605.8
42.5°	525.1	532.2	552.6	574.1	581.3
45°	495.4	503.6	526.1	548.6	558.8
47.5°	466.8	477.1	499.5	525.1	534.3
50°	438.2	447.4	471.9	498.5	508.7
52.5°	407.6	416.8	443.3	473.0	484.2
55°	376.9	387.2	415.8	446.4	458.7
57.5°	345.3	357.5	387.2	418.8	432.1
60°	315.7	325.9	358.6	390.2	402.5
62.5°	285.0	296.2	327.9	359.6	370.8
65°	252.3	264.6	298.3	328.9	342.2
67.5°	222.7	233.9	267.6	298.3	309.5
70°	189.0	203.3	237.0	265.6	277.9
72.5°	158.3	172.6	204.3	229.8	239.0
75°	127.7	142.0	170.6	193.1	200.2
77.5°	99.1	112.4	137.9	156.3	162.4
80°	70.5	83.8	103.2	120.5	126.7
82.5°	44.9	56.2	72.5	84.8	87.9
85°	22.5	30.6	42.9	49.0	48.0
87.5°	7.2	9.2	12.3	10.2	9.2
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)