

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: P558448

Luminaire Tested: **22CBRK-21-UNV-L835-CD1-U**

Issue Date: 7/20/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P558448  
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-L835-CD1-U  
Description: 2X2 2100 LUMEN, LED TROFFER RETROFIT KIT WITH 3500K AND 80 CRI LEDS  
Light Source: -  
Ballast/Driver: -

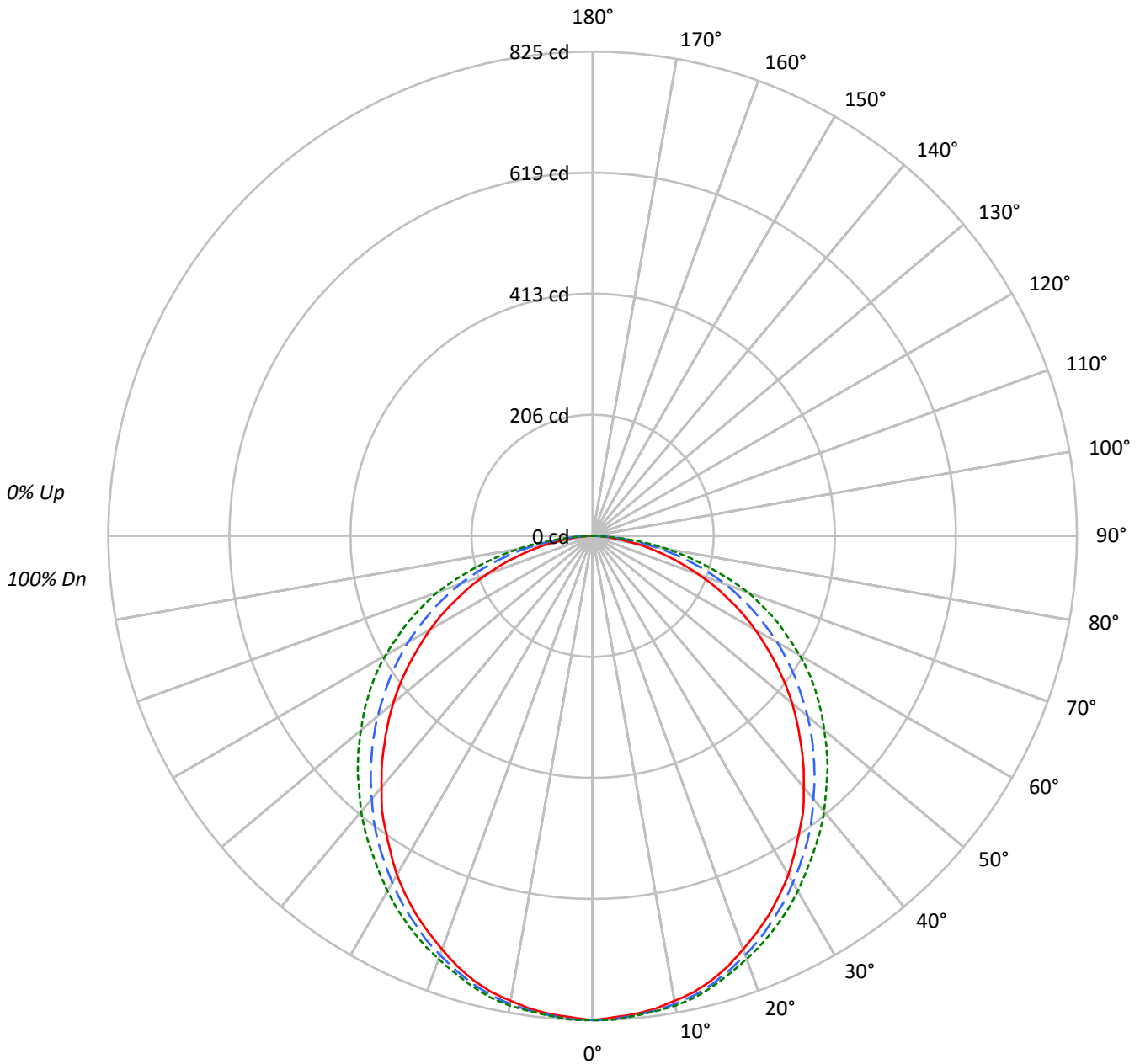
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2345.0 lumens  
Efficiency: N/A  
Efficacy: 162.8 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): 14.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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°	2221	2221	2221
5°	2210	2216	2219
10°	2199	2213	2222
15°	2184	2201	2213
20°	2147	2177	2198
25°	2113	2150	2186
30°	2073	2121	2173
35°	2018	2093	2158
40°	1966	2056	2155
45°	1909	2027	2153
50°	1858	2001	2156
55°	1791	1975	2179
60°	1720	1954	2193
65°	1627	1923	2206
70°	1505	1888	2213
75°	1344	1796	2108
80°	1106	1619	1988
85°	704	1340	1501



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	78.0	3.3
10°-20°	222.5	9.5
20°-30°	333.6	14.2
30°-40°	398.2	17.0
40°-50°	411.7	17.6
50°-60°	377.2	16.1
60°-70°	297.8	12.7
70°-80°	179.2	7.6
80°-90°	46.8	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°	634.1	27.0
0°-40°	1032.3	44.0
0°-60°	1821.1	77.7
0°-90°	2345.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2345.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	825	825	825	825	825	
5°	818	818	820	821	821	78
15°	784	785	790	793	794	221
25°	712	715	724	733	736	328
35°	614	621	637	652	657	385
45°	502	510	533	555	566	387
55°	382	392	421	452	464	341
65°	256	268	302	333	346	254
75°	129	144	173	196	203	137
85°	23	31	43	50	49	30
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	825.4	825.4	825.4	825.4	825.4
2.5°	821.3	822.3	824.4	825.4	825.4
5°	818.1	818.1	820.2	821.3	821.3
7.5°	813.0	814.0	816.1	817.1	817.1
10°	804.7	806.8	809.9	813.0	813.0
12.5°	796.4	797.5	801.6	804.7	805.7
15°	784.0	785.1	790.2	793.3	794.4
17.5°	768.5	770.6	775.7	780.9	780.9
20°	749.9	753.0	760.2	765.4	767.5
22.5°	731.3	735.4	743.7	749.9	753.0
25°	711.6	714.7	724.0	733.3	736.4
27.5°	689.9	693.0	704.4	715.8	718.9
30°	667.1	671.3	682.7	694.0	699.2
32.5°	640.2	646.5	659.9	674.4	677.5
35°	614.4	620.6	637.1	651.6	656.8
37.5°	589.6	593.7	612.3	629.9	636.1
40°	559.6	566.8	585.4	605.1	613.4
42.5°	531.6	538.9	559.6	581.3	588.5
45°	501.6	509.9	532.7	555.4	565.8
47.5°	472.7	483.0	505.8	531.6	541.0
50°	443.7	453.0	477.9	504.7	515.1
52.5°	412.7	422.0	448.9	478.9	490.3
55°	381.7	392.0	421.0	452.0	464.4
57.5°	349.6	362.0	392.0	424.1	437.5
60°	319.6	329.9	363.0	395.1	407.5
62.5°	288.6	300.0	332.0	364.1	375.5
65°	255.5	267.9	302.0	333.1	346.5
67.5°	225.5	236.9	271.0	302.0	313.4
70°	191.3	205.8	240.0	268.9	281.3
72.5°	160.3	174.8	206.9	232.7	242.0
75°	129.3	143.8	172.7	195.5	202.7
77.5°	100.3	113.8	139.6	158.3	164.5
80°	71.4	84.8	104.5	122.1	128.3
82.5°	45.5	56.9	73.4	85.8	89.0
85°	22.8	31.0	43.4	49.6	48.6
87.5°	7.2	9.3	12.4	10.3	9.3
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)