

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: P558450

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

Issue Date: 7/20/2021



Test Information

Test Method: LM-79-08
Report Number: P558450
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-21HE-UNV-L835-CD1-U
Description: 2X2 2100 LUMEN, HIGH EFFICACY, LED TROFFER RETROFIT KIT WITH 3500K AND 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

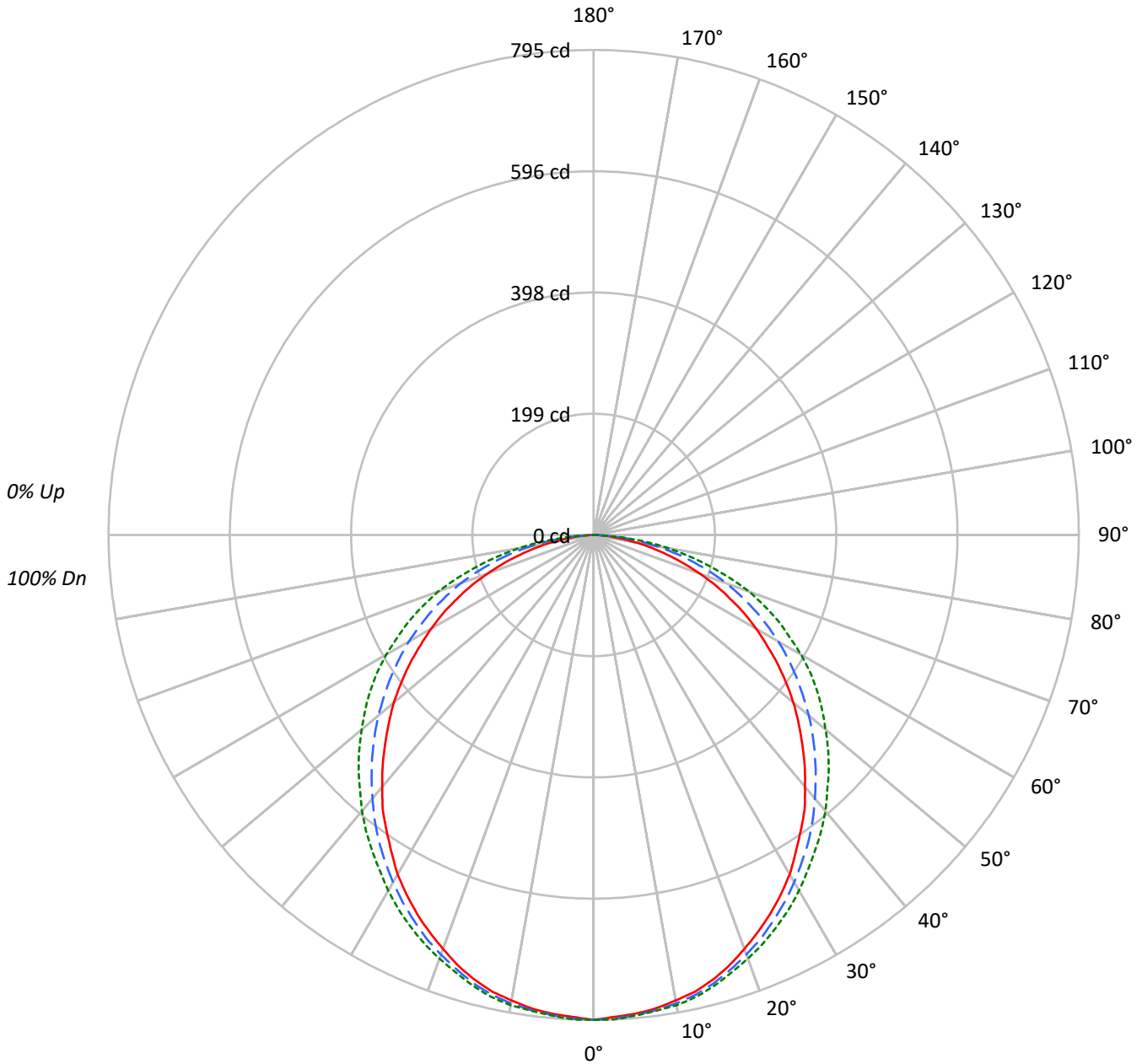
Lumens per Lamp: N/A
Luminaire Lumens: 2258.0 lumens
Efficiency: N/A
Efficacy: 160.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 14.1
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					20					
RC	80					70					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°	2139	2139	2139
5°	2128	2133	2136
10°	2117	2131	2139
15°	2103	2120	2131
20°	2068	2096	2116
25°	2034	2070	2105
30°	1996	2042	2092
35°	1943	2015	2077
40°	1893	1980	2075
45°	1838	1952	2073
50°	1789	1926	2076
55°	1724	1902	2098
60°	1656	1882	2112
65°	1566	1852	2124
70°	1450	1818	2131
75°	1294	1729	2030
80°	1065	1559	1914
85°	676	1291	1445



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.1	3.3
10°-20°	214.3	9.5
20°-30°	321.3	14.2
30°-40°	383.4	17.0
40°-50°	396.4	17.6
50°-60°	363.2	16.1
60°-70°	286.7	12.7
70°-80°	172.6	7.6
80°-90°	45.1	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°	610.6	27.0
0°-40°	994.0	44.0
0°-60°	1753.6	77.7
0°-90°	2258.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2258.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	795	795	795	795	795	
5°	788	788	790	791	791	75
15°	755	756	761	764	765	213
25°	685	688	697	706	709	316
35°	592	598	614	627	632	370
45°	483	491	513	535	545	373
55°	368	378	405	435	447	328
65°	246	258	291	321	334	244
75°	124	138	166	188	195	132
85°	22	30	42	48	47	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	794.8	794.8	794.8	794.8	794.8
2.5°	790.8	791.8	793.8	794.8	794.8
5°	787.8	787.8	789.8	790.8	790.8
7.5°	782.8	783.8	785.8	786.8	786.8
10°	774.8	776.8	779.8	782.8	782.8
12.5°	766.9	767.9	771.9	774.8	775.8
15°	754.9	755.9	760.9	763.9	764.9
17.5°	740.0	742.0	747.0	751.9	751.9
20°	722.1	725.1	732.0	737.0	739.0
22.5°	704.1	708.1	716.1	722.1	725.1
25°	685.2	688.2	697.2	706.1	709.1
27.5°	664.3	667.3	678.2	689.2	692.2
30°	642.4	646.4	657.3	668.3	673.3
32.5°	616.5	622.5	635.4	649.4	652.3
35°	591.6	597.6	613.5	627.4	632.4
37.5°	567.7	571.7	589.6	606.5	612.5
40°	538.8	545.8	563.7	582.6	590.6
42.5°	511.9	518.9	538.8	559.7	566.7
45°	483.0	491.0	512.9	534.8	544.8
47.5°	455.1	465.1	487.0	511.9	520.9
50°	427.3	436.2	460.1	486.0	496.0
52.5°	397.4	406.3	432.2	461.1	472.1
55°	367.5	377.5	405.4	435.2	447.2
57.5°	336.6	348.6	377.5	408.3	421.3
60°	307.7	317.7	349.6	380.5	392.4
62.5°	277.9	288.8	319.7	350.6	361.5
65°	246.0	258.0	290.8	320.7	333.6
67.5°	217.1	228.1	260.9	290.8	301.8
70°	184.3	198.2	231.1	258.9	270.9
72.5°	154.4	168.3	199.2	224.1	233.1
75°	124.5	138.4	166.3	188.2	195.2
77.5°	96.6	109.6	134.5	152.4	158.4
80°	68.7	81.7	100.6	117.5	123.5
82.5°	43.8	54.8	70.7	82.7	85.7
85°	21.9	29.9	41.8	47.8	46.8
87.5°	7.0	9.0	12.0	10.0	9.0
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)