

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: P568557

Luminaire Tested: **24CGTX-80-L840**

Issue Date: 9/19/2022



Test Information

Test Method: LM-79-08
Report Number: P568557
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2206-672-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/19/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CGTX-80-L840
Description: 2X4 8000 LUMEN LED PANEL WITH SMOOTH WHITE FROSTED ACRYLIC LENS AND 4000K, 80CRI LEDS
Light Source: -
Ballast/Driver: -

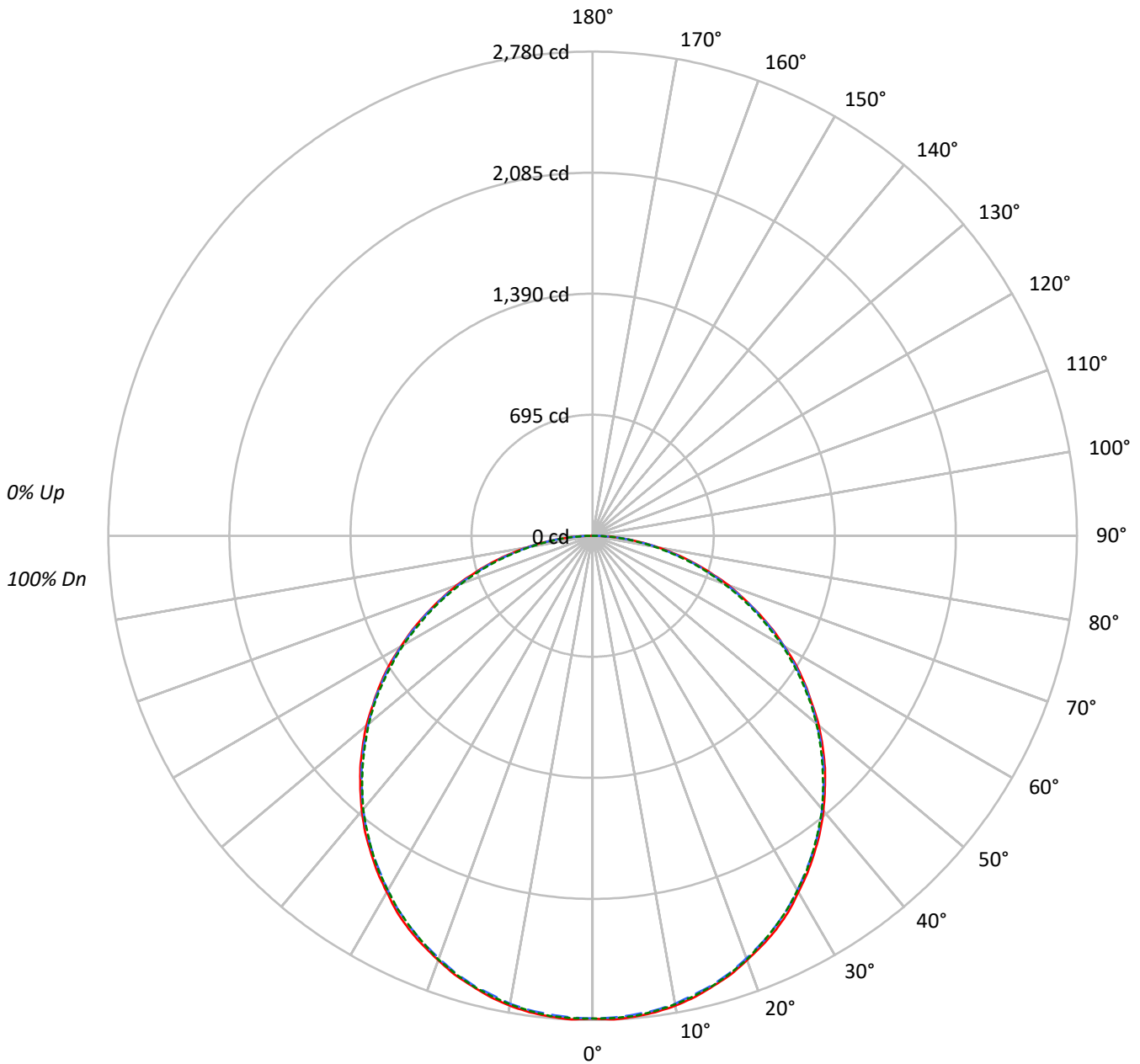
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8145.0 lumens
Efficiency: N/A
Efficacy: 120.5 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.26 / 1.38
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 67.6
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	108	103	99	95	106	101	97	93	97	94	90	93	90	88	89	87	85	83																			
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69																			
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58																			
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49																			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42																			
6	69	56	47	40	67	55	46	40	53	45	40	51	45	39	50	44	39	37																			
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	32																			
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29																			
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26																			
10	52	39	31	26	51	38	31	26	37	30	26	37	30	25	36	30	25	24																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3729	3729	3729
5°	3744	3728	3738
10°	3744	3727	3733
15°	3728	3717	3723
20°	3713	3696	3707
25°	3702	3679	3679
30°	3671	3652	3652
35°	3646	3627	3627
40°	3620	3599	3599
45°	3589	3567	3551
50°	3549	3516	3508
55°	3493	3475	3447
60°	3420	3409	3377
65°	3338	3325	3274
70°	3265	3203	3140
75°	3138	3055	2993
80°	2954	2892	2769
85°	2697	2637	2513



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	262.7	3.2
10°-20°	753.1	9.2
20°-30°	1142.9	14.0
30°-40°	1382.9	17.0
40°-50°	1444.6	17.7
50°-60°	1321.5	16.2
60°-70°	1028.6	12.6
70°-80°	619.9	7.6
80°-90°	188.9	2.3
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°	2158.7	26.5
0°-40°	3541.5	43.5
0°-60°	6307.6	77.4
0°-90°	8145.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8145.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2772	2772	2772	2772	2772	
5°	2772	2764	2760	2760	2768	264
15°	2676	2669	2669	2665	2673	756
25°	2494	2482	2478	2474	2478	1148
35°	2220	2212	2208	2208	2208	1390
45°	1886	1874	1874	1866	1866	1454
55°	1489	1485	1481	1469	1469	1330
65°	1048	1048	1044	1028	1028	1039
75°	604	596	588	576	576	635
85°	175	171	171	163	163	194
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2771.8	2771.8	2771.8	2771.8	2771.8
2.5°	2779.8	2771.8	2767.9	2767.9	2771.8
5°	2771.8	2763.9	2759.9	2759.9	2767.9
7.5°	2759.9	2748.0	2748.0	2744.0	2752.0
10°	2740.1	2728.2	2728.2	2724.2	2732.1
12.5°	2712.3	2700.4	2696.4	2696.4	2704.3
15°	2676.5	2668.6	2668.6	2664.6	2672.6
17.5°	2640.8	2628.9	2628.9	2624.9	2632.8
20°	2593.1	2585.2	2581.2	2581.2	2589.2
22.5°	2545.5	2537.5	2533.6	2533.6	2533.6
25°	2493.9	2481.9	2478.0	2474.0	2478.0
27.5°	2434.3	2418.4	2418.4	2414.4	2418.4
30°	2362.8	2354.9	2350.9	2346.9	2350.9
32.5°	2295.3	2283.4	2279.4	2283.4	2283.4
35°	2219.8	2211.9	2207.9	2207.9	2207.9
37.5°	2144.4	2132.5	2132.5	2128.5	2128.5
40°	2061.0	2053.1	2049.1	2049.1	2049.1
42.5°	1973.6	1965.7	1961.7	1957.8	1957.8
45°	1886.3	1874.4	1874.4	1866.4	1866.4
47.5°	1791.0	1783.0	1779.1	1771.1	1771.1
50°	1695.7	1687.7	1679.8	1679.8	1675.8
52.5°	1588.4	1588.4	1584.5	1576.5	1576.5
55°	1489.2	1485.2	1481.2	1469.3	1469.3
57.5°	1385.9	1381.9	1374.0	1362.1	1362.1
60°	1270.8	1270.8	1266.8	1250.9	1254.9
62.5°	1163.5	1159.6	1155.6	1143.7	1139.7
65°	1048.4	1048.4	1044.4	1028.5	1028.5
67.5°	937.2	937.2	929.2	913.4	913.4
70°	830.0	818.0	814.1	802.2	798.2
72.5°	710.8	706.9	698.9	687.0	687.0
75°	603.6	595.7	587.7	575.8	575.8
77.5°	488.4	480.5	472.6	468.6	460.6
80°	381.2	377.3	373.3	361.4	357.4
82.5°	274.0	270.0	266.1	262.1	258.1
85°	174.7	170.8	170.8	162.8	162.8
87.5°	75.5	79.4	71.5	75.5	71.5
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)