

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: P568495

Luminaire Tested: **24CGTX-80HE-L850**

Issue Date: 9/19/2022



Test Information

Test Method: LM-79-08
Report Number: P568495
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-80HE-L850
Description: 2X4 8000 LUMEN, HIGH EFFICACY, LED PANEL WITH SMOOTH WHITE FROSTED ACRYLIC LENS AND 5000K, 80CRI LEDS
Light Source: -
Ballast/Driver: -

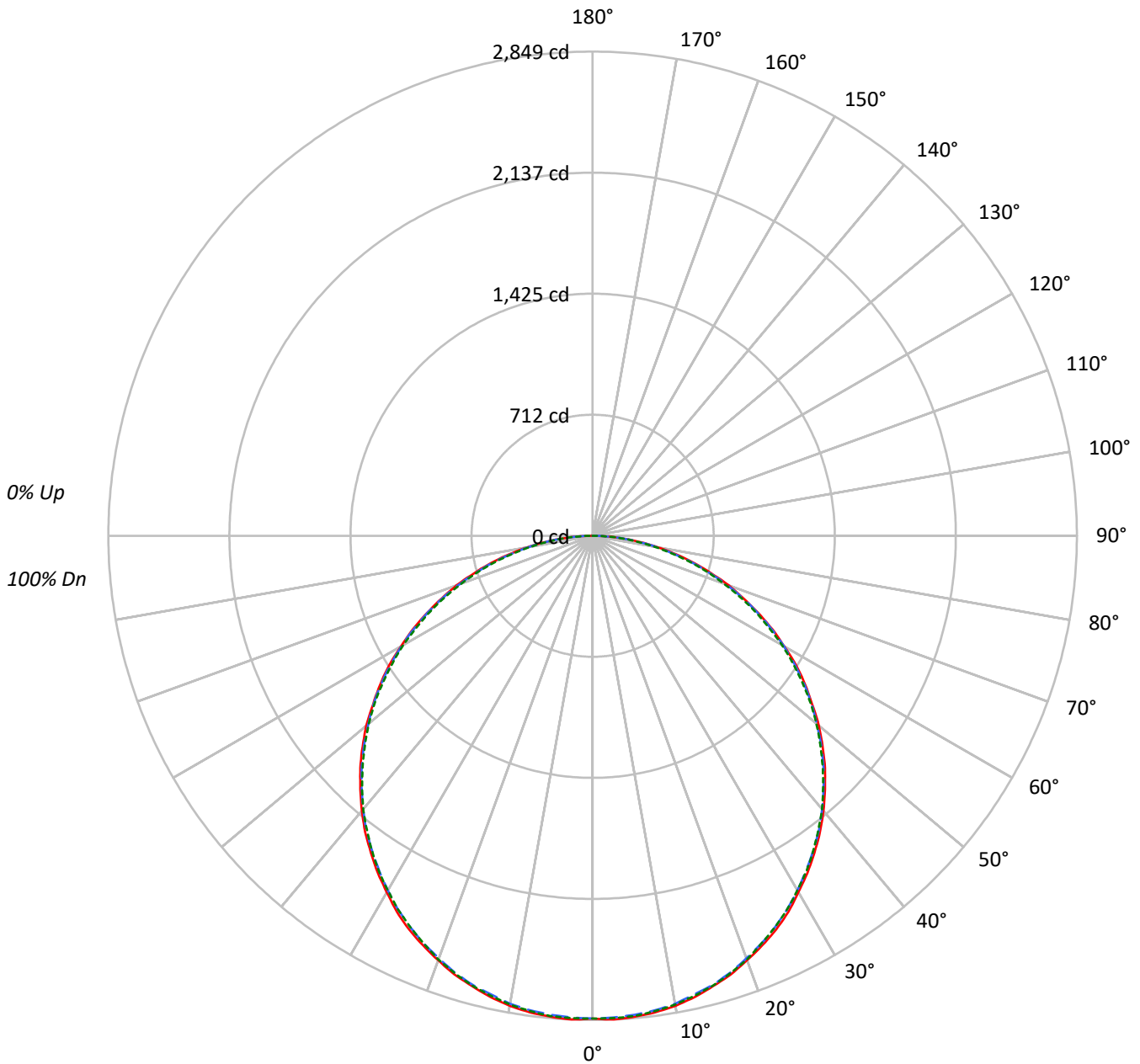
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8348.0 lumens
Efficiency: N/A
Efficacy: 131.1 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): 63.7
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

TEST NUMBER: P568495
CATALOG NUMBER: 24CGTX-80HE-L850

Luminous Intensity Polar Plot





TEST NUMBER: P568495

CATALOG NUMBER: 24CGTX-80HE-L850

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°	3822	3822	3822
5°	3837	3821	3831
10°	3837	3820	3826
15°	3821	3810	3816
20°	3806	3788	3800
25°	3795	3770	3770
30°	3762	3743	3743
35°	3737	3717	3717
40°	3710	3689	3689
45°	3679	3655	3640
50°	3638	3604	3595
55°	3580	3561	3533
60°	3505	3494	3461
65°	3421	3408	3356
70°	3346	3282	3218
75°	3216	3132	3068
80°	3027	2965	2838
85°	2765	2702	2577



TEST NUMBER: P568495
 CATALOG NUMBER: 24CGTX-80HE-L850

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	269.2	3.2
10°-20°	771.9	9.2
20°-30°	1171.4	14.0
30°-40°	1417.3	17.0
40°-50°	1480.6	17.7
50°-60°	1354.4	16.2
60°-70°	1054.2	12.6
70°-80°	635.4	7.6
80°-90°	193.6	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°	2212.5	26.5
0°-40°	3629.8	43.5
0°-60°	6464.8	77.4
0°-90°	8348.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8348.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2841	2841	2841	2841	2841	
5°	2841	2833	2829	2829	2837	270
15°	2743	2735	2735	2731	2739	775
25°	2556	2544	2540	2536	2540	1177
35°	2275	2267	2263	2263	2263	1424
45°	1933	1921	1921	1913	1913	1490
55°	1526	1522	1518	1506	1506	1363
65°	1074	1074	1070	1054	1054	1065
75°	619	610	602	590	590	651
85°	179	175	175	167	167	199
90°	0	0	0	0	0	



TEST NUMBER: P568495

CATALOG NUMBER: 24CGTX-80HE-L850

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2840.9	2840.9	2840.9	2840.9	2840.9
2.5°	2849.1	2840.9	2836.8	2836.8	2840.9
5°	2840.9	2832.8	2828.7	2828.7	2836.8
7.5°	2828.7	2816.5	2816.5	2812.4	2820.6
10°	2808.4	2796.1	2796.1	2792.1	2800.2
12.5°	2779.9	2767.7	2763.6	2763.6	2771.7
15°	2743.2	2735.1	2735.1	2731.0	2739.2
17.5°	2706.6	2694.4	2694.4	2690.3	2698.5
20°	2657.8	2649.6	2645.6	2645.6	2653.7
22.5°	2608.9	2600.8	2596.7	2596.7	2596.7
25°	2556.0	2543.8	2539.7	2535.7	2539.7
27.5°	2495.0	2478.7	2478.7	2474.6	2478.7
30°	2421.7	2413.6	2409.5	2405.4	2409.5
32.5°	2352.5	2340.3	2336.2	2340.3	2340.3
35°	2275.2	2267.0	2263.0	2263.0	2263.0
37.5°	2197.8	2185.6	2185.6	2181.6	2181.6
40°	2112.4	2104.2	2100.2	2100.2	2100.2
42.5°	2022.8	2014.7	2010.6	2006.6	2006.6
45°	1933.3	1921.1	1921.1	1912.9	1912.9
47.5°	1835.6	1827.5	1823.4	1815.3	1815.3
50°	1737.9	1729.8	1721.6	1721.6	1717.6
52.5°	1628.0	1628.0	1624.0	1615.8	1615.8
55°	1526.3	1522.2	1518.1	1505.9	1505.9
57.5°	1420.5	1416.4	1408.2	1396.0	1396.0
60°	1302.4	1302.4	1298.4	1282.1	1286.1
62.5°	1192.5	1188.5	1184.4	1172.2	1168.1
65°	1074.5	1074.5	1070.4	1054.2	1054.2
67.5°	960.5	960.5	952.4	936.1	936.1
70°	850.6	838.4	834.4	822.2	818.1
72.5°	728.5	724.5	716.3	704.1	704.1
75°	618.7	610.5	602.4	590.2	590.2
77.5°	500.6	492.5	484.3	480.3	472.1
80°	390.7	386.7	382.6	370.4	366.3
82.5°	280.8	276.8	272.7	268.6	264.6
85°	179.1	175.0	175.0	166.9	166.9
87.5°	77.3	81.4	73.3	77.3	73.3
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)