

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: P568430

Luminaire Tested: **24CGTX-90HE-L830**

Issue Date: 9/19/2022

Test Information

Test Method: LM-79-08
Report Number: P568430
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-90HE-L830
Description: 2X4 9000 LUMEN, HIGH EFFICACY, LED PANEL WITH SMOOTH WHITE FROSTED ACRYLIC LENS AND 3000K, 80CRI LEDS
Light Source: -
Ballast/Driver: -

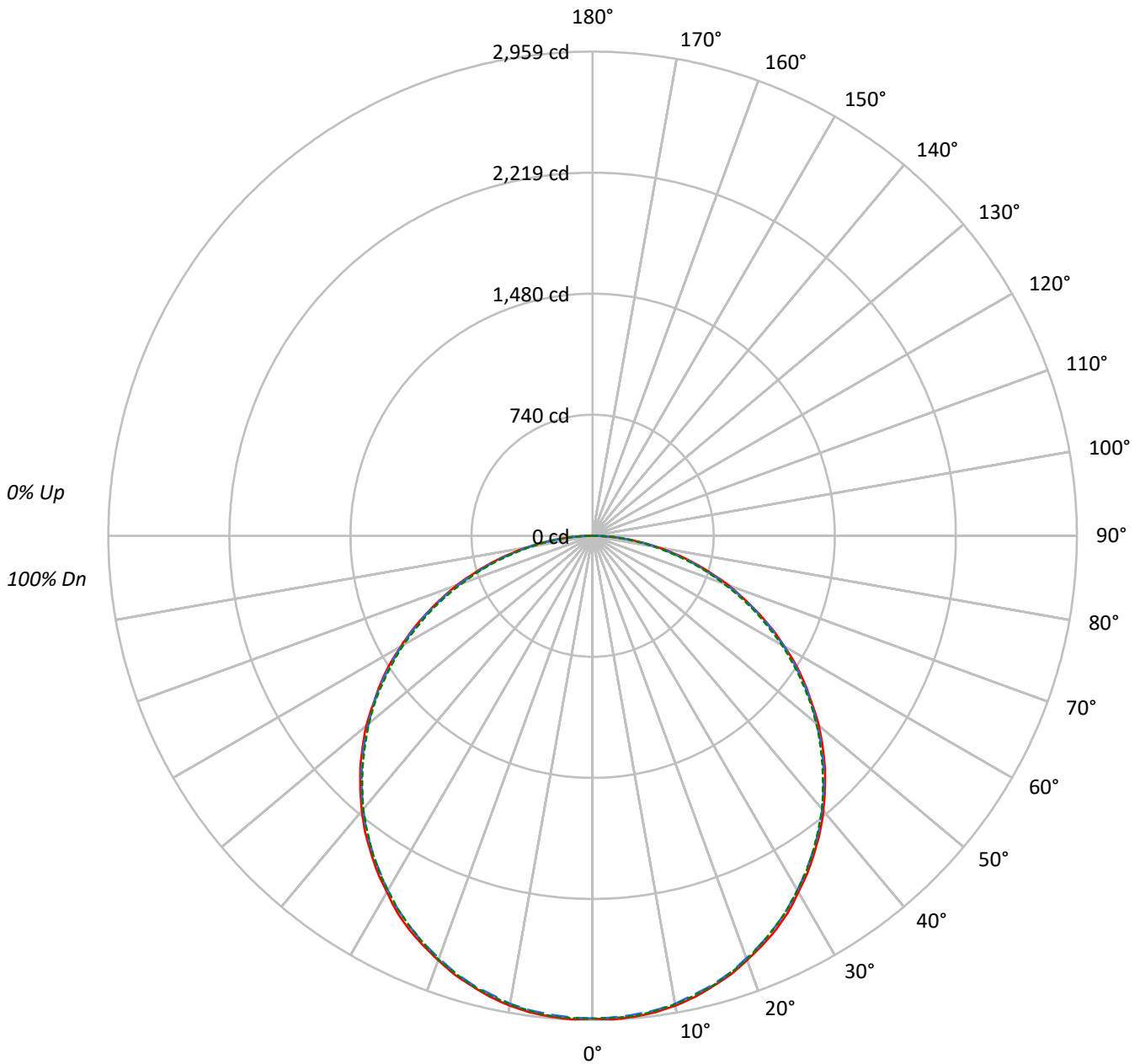
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8669.0 lumens
Efficiency: N/A
Efficacy: 117.5 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): 73.8
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	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°	3969	3969	3969
5°	3985	3967	3979
10°	3984	3967	3973
15°	3968	3956	3962
20°	3952	3934	3946
25°	3941	3915	3915
30°	3907	3887	3887
35°	3881	3860	3860
40°	3853	3831	3831
45°	3820	3796	3780
50°	3778	3742	3733
55°	3718	3698	3668
60°	3640	3628	3594
65°	3552	3539	3485
70°	3475	3409	3342
75°	3340	3252	3186
80°	3144	3078	2947
85°	2871	2805	2675



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	279.6	3.2
10°-20°	801.6	9.2
20°-30°	1216.4	14.0
30°-40°	1471.8	17.0
40°-50°	1537.6	17.7
50°-60°	1406.5	16.2
60°-70°	1094.7	12.6
70°-80°	659.8	7.6
80°-90°	201.1	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°	2297.6	26.5
0°-40°	3769.4	43.5
0°-60°	6713.4	77.4
0°-90°	8669.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8669.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2950	2950	2950	2950	2950	
5°	2950	2942	2938	2938	2946	281
15°	2849	2840	2840	2836	2844	805
25°	2654	2642	2637	2633	2637	1222
35°	2363	2354	2350	2350	2350	1479
45°	2008	1995	1995	1986	1986	1547
55°	1585	1581	1576	1564	1564	1416
65°	1116	1116	1112	1095	1095	1106
75°	642	634	626	613	613	676
85°	186	182	182	173	173	207
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2950.2	2950.2	2950.2	2950.2	2950.2
2.5°	2958.6	2950.2	2945.9	2945.9	2950.2
5°	2950.2	2941.7	2937.5	2937.5	2945.9
7.5°	2937.5	2924.8	2924.8	2920.6	2929.0
10°	2916.3	2903.7	2903.7	2899.4	2907.9
12.5°	2886.8	2874.1	2869.9	2869.9	2878.3
15°	2848.7	2840.3	2840.3	2836.0	2844.5
17.5°	2810.7	2798.0	2798.0	2793.8	2802.2
20°	2760.0	2751.5	2747.3	2747.3	2755.7
22.5°	2709.2	2700.8	2696.6	2696.6	2696.6
25°	2654.3	2641.6	2637.4	2633.2	2637.4
27.5°	2590.9	2574.0	2574.0	2569.8	2574.0
30°	2514.8	2506.4	2502.1	2497.9	2502.1
32.5°	2443.0	2430.3	2426.1	2430.3	2430.3
35°	2362.7	2354.2	2350.0	2350.0	2350.0
37.5°	2282.4	2269.7	2269.7	2265.5	2265.5
40°	2193.6	2185.1	2180.9	2180.9	2180.9
42.5°	2100.6	2092.2	2087.9	2083.7	2083.7
45°	2007.6	1994.9	1994.9	1986.5	1986.5
47.5°	1906.2	1897.7	1893.5	1885.1	1885.1
50°	1804.8	1796.3	1787.8	1787.8	1783.6
52.5°	1690.6	1690.6	1686.4	1678.0	1678.0
55°	1585.0	1580.7	1576.5	1563.8	1563.8
57.5°	1475.1	1470.9	1462.4	1449.7	1449.7
60°	1352.5	1352.5	1348.3	1331.4	1335.6
62.5°	1238.4	1234.2	1229.9	1217.3	1213.0
65°	1115.8	1115.8	1111.6	1094.7	1094.7
67.5°	997.5	997.5	989.0	972.1	972.1
70°	883.4	870.7	866.5	853.8	849.5
72.5°	756.6	752.3	743.9	731.2	731.2
75°	642.4	634.0	625.5	612.9	612.9
77.5°	519.9	511.4	503.0	498.7	490.3
80°	405.8	401.5	397.3	384.6	380.4
82.5°	291.6	287.4	283.2	279.0	274.7
85°	186.0	181.7	181.7	173.3	173.3
87.5°	80.3	84.5	76.1	80.3	76.1
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)