

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: P568474

Luminaire Tested: **24CGTX-90HE-L840**

Issue Date: 9/19/2022

Test Information

Test Method: LM-79-08
Report Number: P568474
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-L840
Description: 2X4 9000 LUMEN, HIGH EFFICACY, LED PANEL WITH SMOOTH WHITE FROSTED ACRYLIC LENS AND 4000K, 80CRI LEDS
Light Source: -
Ballast/Driver: -

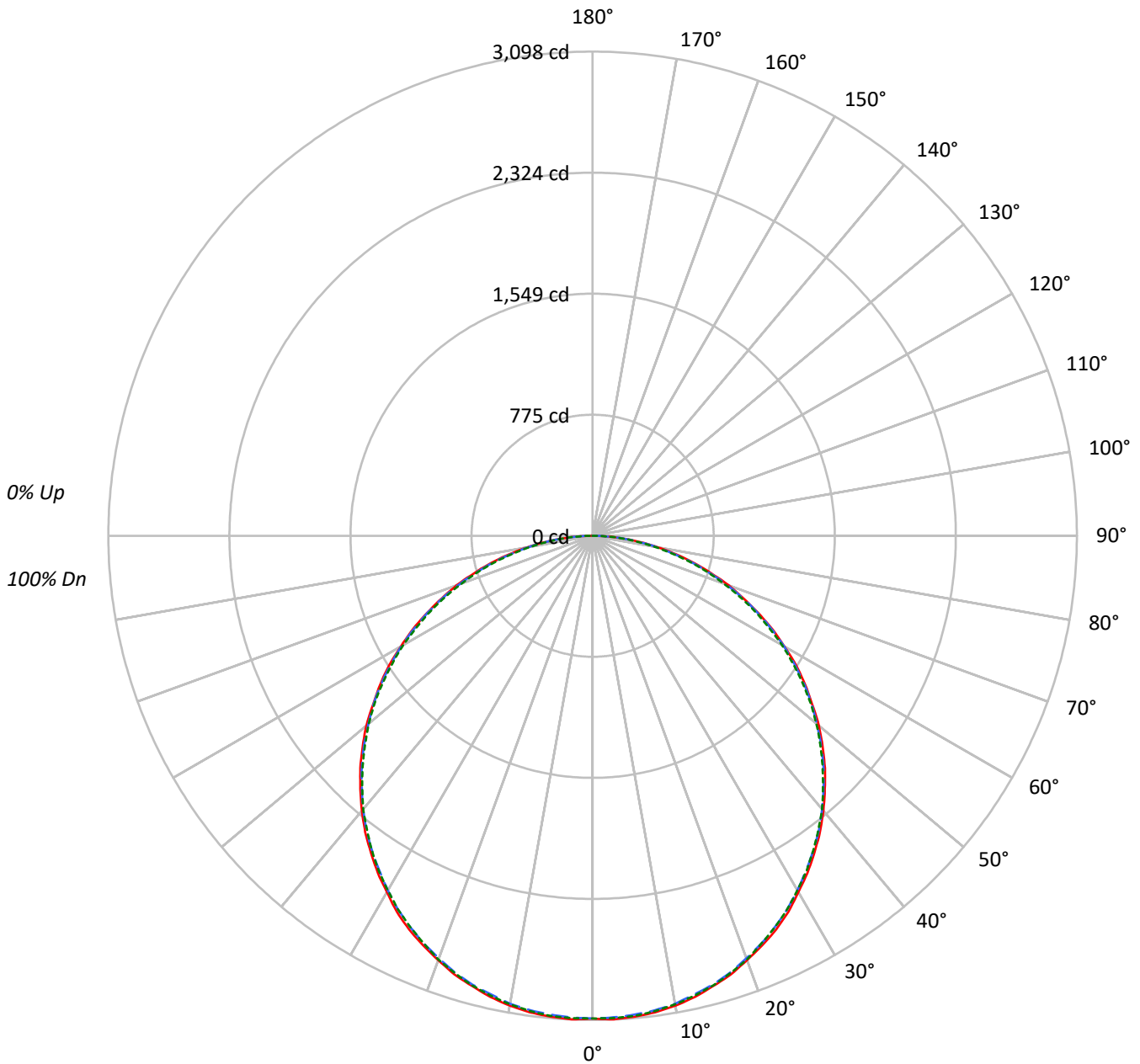
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9076.0 lumens
Efficiency: N/A
Efficacy: 123.0 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

TEST NUMBER: P568474
CATALOG NUMBER: 24CGTX-90HE-L840

Luminous Intensity Polar Plot





TEST NUMBER: P568474

CATALOG NUMBER: 24CGTX-90HE-L840

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	23																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4156	4156	4156
5°	4172	4154	4166
10°	4172	4153	4159
15°	4154	4142	4148
20°	4137	4118	4131
25°	4126	4099	4099
30°	4091	4070	4070
35°	4063	4041	4041
40°	4034	4010	4010
45°	4000	3974	3957
50°	3955	3918	3909
55°	3893	3872	3841
60°	3810	3799	3763
65°	3719	3705	3649
70°	3638	3568	3499
75°	3497	3405	3335
80°	3292	3223	3086
85°	3006	2938	2800



TEST NUMBER: P568474

CATALOG NUMBER: 24CGTX-90HE-L840

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	292.7	3.2
10°-20°	839.2	9.2
20°-30°	1273.5	14.0
30°-40°	1540.9	17.0
40°-50°	1609.8	17.7
50°-60°	1472.5	16.2
60°-70°	1146.1	12.6
70°-80°	690.8	7.6
80°-90°	210.5	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°	2405.4	26.5
0°-40°	3946.3	43.5
0°-60°	7028.6	77.4
0°-90°	9076.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9076.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3089	3089	3089	3089	3089	
5°	3089	3080	3075	3075	3084	294
15°	2982	2974	2974	2969	2978	842
25°	2779	2766	2761	2757	2761	1280
35°	2474	2465	2460	2460	2460	1548
45°	2102	2089	2089	2080	2080	1620
55°	1659	1655	1650	1637	1637	1482
65°	1168	1168	1164	1146	1146	1158
75°	673	664	655	642	642	708
85°	195	190	190	181	181	217
90°	0	0	0	0	0	



TEST NUMBER: P568474

CATALOG NUMBER: 24CGTX-90HE-L840

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3088.7	3088.7	3088.7	3088.7	3088.7
2.5°	3097.5	3088.7	3084.2	3084.2	3088.7
5°	3088.7	3079.8	3075.4	3075.4	3084.2
7.5°	3075.4	3062.1	3062.1	3057.7	3066.5
10°	3053.3	3040.0	3040.0	3035.6	3044.4
12.5°	3022.3	3009.0	3004.6	3004.6	3013.4
15°	2982.5	2973.6	2973.6	2969.2	2978.0
17.5°	2942.6	2929.4	2929.4	2924.9	2933.8
20°	2889.5	2880.7	2876.3	2876.3	2885.1
22.5°	2836.4	2827.6	2823.2	2823.2	2823.2
25°	2778.9	2765.6	2761.2	2756.8	2761.2
27.5°	2712.5	2694.8	2694.8	2690.4	2694.8
30°	2632.9	2624.0	2619.6	2615.2	2619.6
32.5°	2557.7	2544.4	2540.0	2544.4	2544.4
35°	2473.6	2464.7	2460.3	2460.3	2460.3
37.5°	2389.5	2376.2	2376.2	2371.8	2371.8
40°	2296.6	2287.7	2283.3	2283.3	2283.3
42.5°	2199.2	2190.4	2186.0	2181.5	2181.5
45°	2101.9	2088.6	2088.6	2079.8	2079.8
47.5°	1995.7	1986.8	1982.4	1973.6	1973.6
50°	1889.5	1880.6	1871.8	1871.8	1867.4
52.5°	1770.0	1770.0	1765.6	1756.7	1756.7
55°	1659.4	1655.0	1650.5	1637.3	1637.3
57.5°	1544.3	1539.9	1531.1	1517.8	1517.8
60°	1416.0	1416.0	1411.6	1393.9	1398.3
62.5°	1296.5	1292.1	1287.7	1274.4	1270.0
65°	1168.2	1168.2	1163.8	1146.1	1146.1
67.5°	1044.3	1044.3	1035.5	1017.8	1017.8
70°	924.8	911.6	907.1	893.9	889.4
72.5°	792.1	787.7	778.8	765.5	765.5
75°	672.6	663.8	654.9	641.6	641.6
77.5°	544.3	535.4	526.6	522.2	513.3
80°	424.8	420.4	416.0	402.7	398.3
82.5°	305.3	300.9	296.5	292.1	287.6
85°	194.7	190.3	190.3	181.4	181.4
87.5°	84.1	88.5	79.7	84.1	79.7
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)