

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: P568465

Luminaire Tested: **24CGTX-20HE-L840**

Issue Date: 9/19/2022

Test Information

Test Method: LM-79-08
Report Number: P568465
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-20HE-L840
Description: 2X4 2000 LUMEN, HIGH EFFICACY, LED PANEL WITH SMOOTH WHITE FROSTED ACRYLIC LENS AND 4000K, 80CRI LEDS
Light Source: -
Ballast/Driver: -

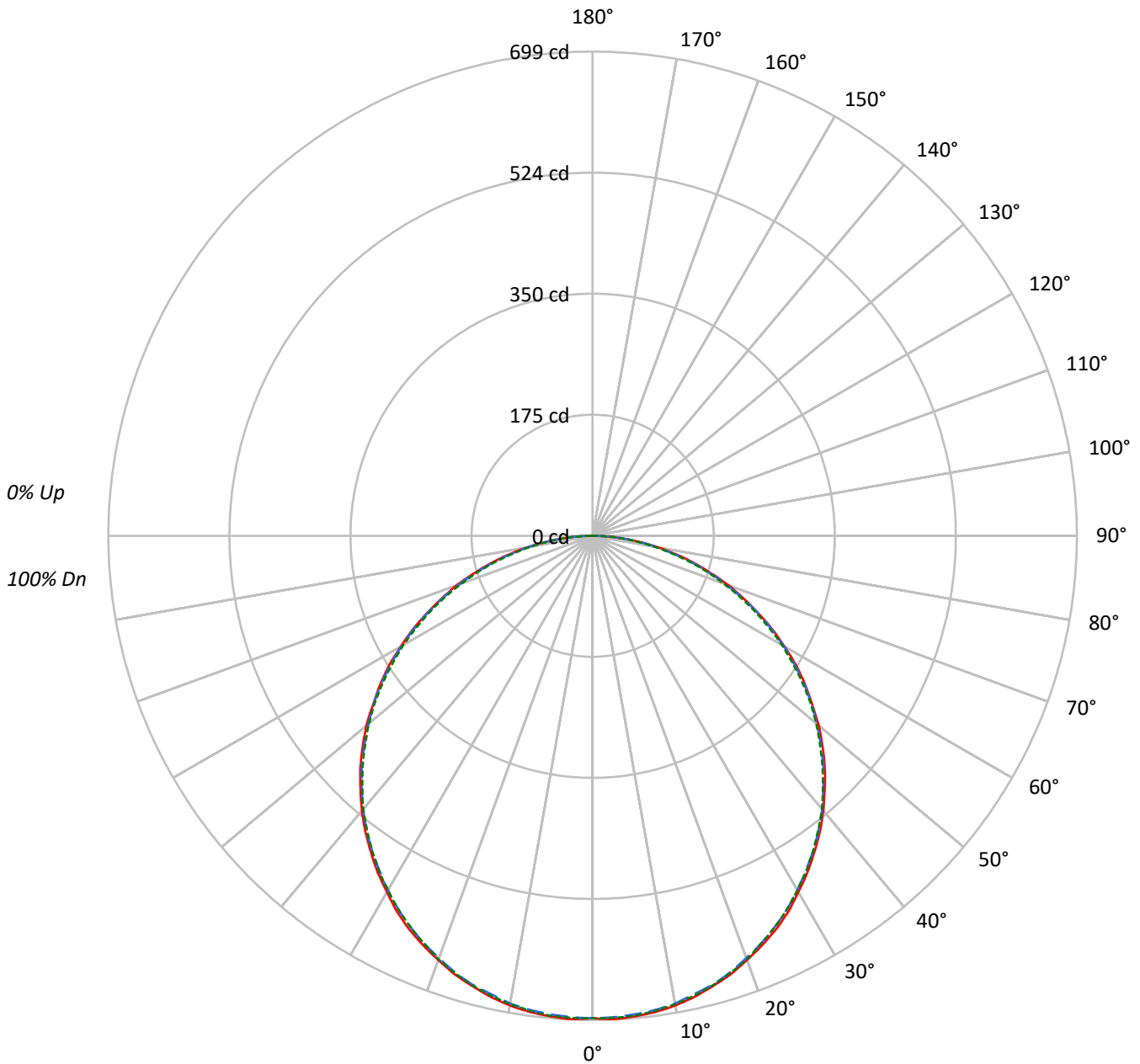
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2047.0 lumens
Efficiency: N/A
Efficacy: 138.3 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): 14.8
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: P568465
CATALOG NUMBER: 24CGTX-20HE-L840

Luminous Intensity Polar Plot





TEST NUMBER: P568465

CATALOG NUMBER: 24CGTX-20HE-L840

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	23			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	937	937	937
5°	941	937	939
10°	941	937	938
15°	937	934	936
20°	933	929	932
25°	931	925	925
30°	923	918	918
35°	916	911	911
40°	910	905	905
45°	902	896	893
50°	892	884	882
55°	878	873	866
60°	859	857	849
65°	839	836	823
70°	821	805	789
75°	789	768	752
80°	742	727	696
85°	678	662	631



TEST NUMBER: P568465
 CATALOG NUMBER: 24CGTX-20HE-L840

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.0	3.2
10°-20°	189.3	9.2
20°-30°	287.2	14.0
30°-40°	347.5	17.0
40°-50°	363.1	17.7
50°-60°	332.1	16.2
60°-70°	258.5	12.6
70°-80°	155.8	7.6
80°-90°	47.5	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°	542.5	26.5
0°-40°	890.1	43.5
0°-60°	1585.2	77.4
0°-90°	2047.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2047.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	697	697	697	697	697	
5°	697	695	694	694	696	66
15°	673	671	671	670	672	190
25°	627	624	623	622	623	289
35°	558	556	555	555	555	349
45°	474	471	471	469	469	365
55°	374	373	372	369	369	334
65°	264	264	262	258	258	261
75°	152	150	148	145	145	160
85°	44	43	43	41	41	49
90°	0	0	0	0	0	



TEST NUMBER: P568465

CATALOG NUMBER: 24CGTX-20HE-L840

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	696.6	696.6	696.6	696.6	696.6
2.5°	698.6	696.6	695.6	695.6	696.6
5°	696.6	694.6	693.6	693.6	695.6
7.5°	693.6	690.6	690.6	689.6	691.6
10°	688.6	685.6	685.6	684.6	686.6
12.5°	681.6	678.7	677.7	677.7	679.7
15°	672.7	670.7	670.7	669.7	671.7
17.5°	663.7	660.7	660.7	659.7	661.7
20°	651.7	649.7	648.7	648.7	650.7
22.5°	639.7	637.7	636.7	636.7	636.7
25°	626.8	623.8	622.8	621.8	622.8
27.5°	611.8	607.8	607.8	606.8	607.8
30°	593.8	591.8	590.8	589.8	590.8
32.5°	576.9	573.9	572.9	573.9	573.9
35°	557.9	555.9	554.9	554.9	554.9
37.5°	538.9	535.9	535.9	534.9	534.9
40°	518.0	516.0	515.0	515.0	515.0
42.5°	496.0	494.0	493.0	492.0	492.0
45°	474.1	471.1	471.1	469.1	469.1
47.5°	450.1	448.1	447.1	445.1	445.1
50°	426.2	424.2	422.2	422.2	421.2
52.5°	399.2	399.2	398.2	396.2	396.2
55°	374.3	373.3	372.3	369.3	369.3
57.5°	348.3	347.3	345.3	342.3	342.3
60°	319.4	319.4	318.4	314.4	315.4
62.5°	292.4	291.4	290.4	287.4	286.4
65°	263.5	263.5	262.5	258.5	258.5
67.5°	235.5	235.5	233.5	229.5	229.5
70°	208.6	205.6	204.6	201.6	200.6
72.5°	178.6	177.6	175.7	172.7	172.7
75°	151.7	149.7	147.7	144.7	144.7
77.5°	122.8	120.8	118.8	117.8	115.8
80°	95.8	94.8	93.8	90.8	89.8
82.5°	68.9	67.9	66.9	65.9	64.9
85°	43.9	42.9	42.9	40.9	40.9
87.5°	19.0	20.0	18.0	19.0	18.0
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)