

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: P568553

Luminaire Tested: **24CGTX-45-L840**

Issue Date: 9/19/2022

Test Information

Test Method: LM-79-08
Report Number: P568553
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-45-L840
Description: 2X4 4500 LUMEN LED PANEL WITH SMOOTH WHITE FROSTED ACRYLIC LENS AND
4000K, 80CRI LEDS
Light Source: -
Ballast/Driver: -

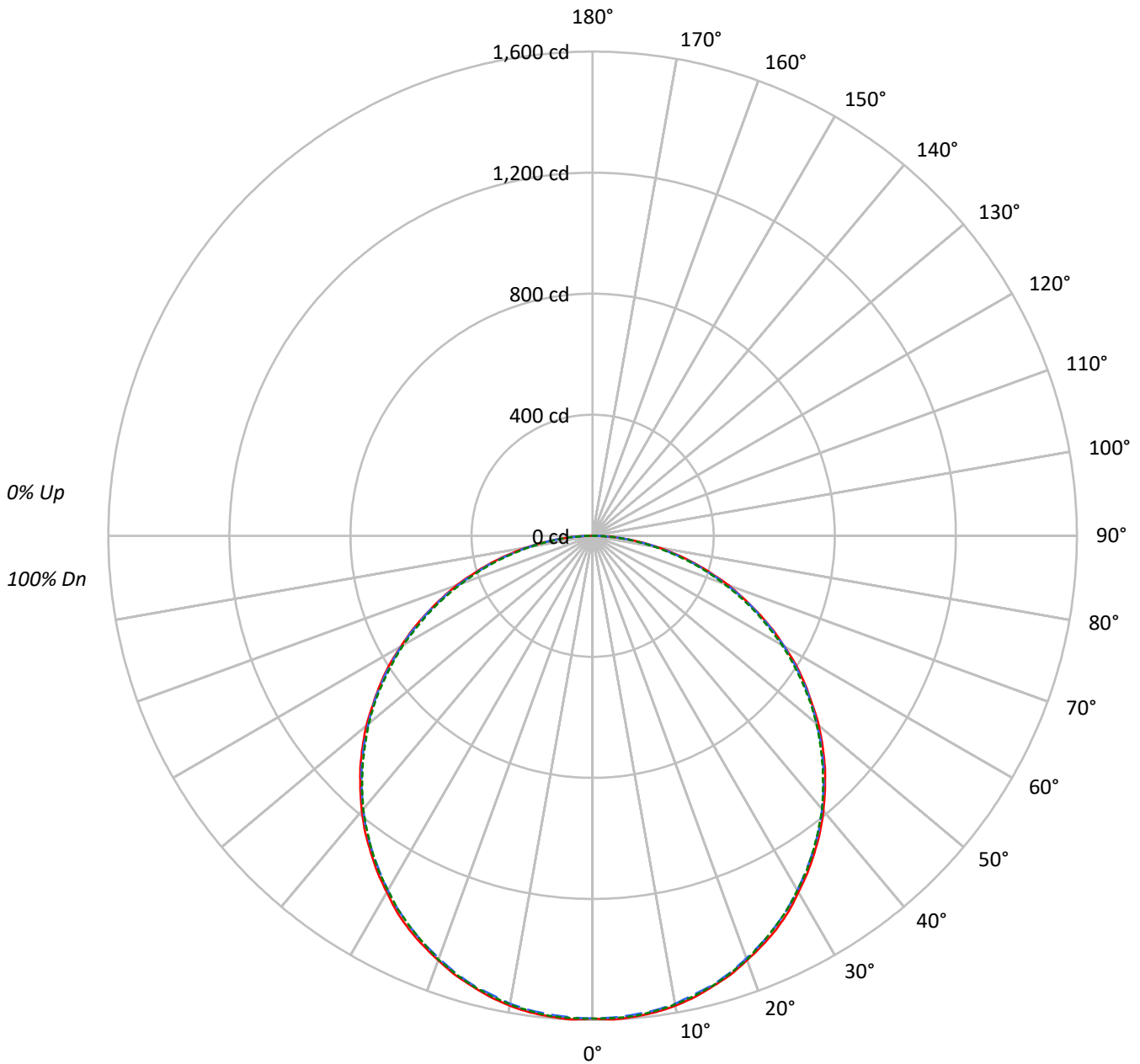
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4688.0 lumens
Efficiency: N/A
Efficacy: 131.7 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): 35.6
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°	2147	2147	2147
5°	2155	2145	2152
10°	2155	2145	2148
15°	2146	2140	2143
20°	2137	2127	2134
25°	2131	2117	2117
30°	2113	2102	2102
35°	2099	2087	2087
40°	2083	2072	2072
45°	2066	2053	2044
50°	2043	2024	2019
55°	2011	2000	1984
60°	1968	1962	1944
65°	1921	1914	1885
70°	1879	1843	1807
75°	1806	1759	1723
80°	1700	1665	1594
85°	1553	1518	1447



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.2	3.2
10°-20°	433.5	9.2
20°-30°	657.8	14.0
30°-40°	795.9	17.0
40°-50°	831.5	17.7
50°-60°	760.6	16.2
60°-70°	592.0	12.6
70°-80°	356.8	7.6
80°-90°	108.7	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°	1242.5	26.5
0°-40°	2038.4	43.5
0°-60°	3630.5	77.4
0°-90°	4688.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4688.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1595	1595	1595	1595	1595	
5°	1595	1591	1588	1588	1593	152
15°	1540	1536	1536	1534	1538	435
25°	1435	1428	1426	1424	1426	661
35°	1278	1273	1271	1271	1271	800
45°	1086	1079	1079	1074	1074	837
55°	857	855	852	846	846	766
65°	603	603	601	592	592	598
75°	347	343	338	331	331	366
85°	101	98	98	94	94	112
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1595.4	1595.4	1595.4	1595.4	1595.4
2.5°	1599.9	1595.4	1593.1	1593.1	1595.4
5°	1595.4	1590.8	1588.5	1588.5	1593.1
7.5°	1588.5	1581.7	1581.7	1579.4	1584.0
10°	1577.1	1570.2	1570.2	1568.0	1572.5
12.5°	1561.1	1554.2	1552.0	1552.0	1556.5
15°	1540.5	1536.0	1536.0	1533.7	1538.2
17.5°	1520.0	1513.1	1513.1	1510.8	1515.4
20°	1492.5	1488.0	1485.7	1485.7	1490.2
22.5°	1465.1	1460.5	1458.2	1458.2	1458.2
25°	1435.4	1428.5	1426.2	1424.0	1426.2
27.5°	1401.1	1392.0	1392.0	1389.7	1392.0
30°	1360.0	1355.4	1353.1	1350.8	1353.1
32.5°	1321.1	1314.2	1312.0	1314.2	1314.2
35°	1277.7	1273.1	1270.8	1270.8	1270.8
37.5°	1234.2	1227.4	1227.4	1225.1	1225.1
40°	1186.2	1181.7	1179.4	1179.4	1179.4
42.5°	1136.0	1131.4	1129.1	1126.8	1126.8
45°	1085.7	1078.8	1078.8	1074.3	1074.3
47.5°	1030.8	1026.3	1024.0	1019.4	1019.4
50°	976.0	971.4	966.8	966.8	964.5
52.5°	914.3	914.3	912.0	907.4	907.4
55°	857.1	854.8	852.5	845.7	845.7
57.5°	797.7	795.4	790.8	784.0	784.0
60°	731.4	731.4	729.1	720.0	722.3
62.5°	669.7	667.4	665.1	658.3	656.0
65°	603.4	603.4	601.1	592.0	592.0
67.5°	539.4	539.4	534.8	525.7	525.7
70°	477.7	470.8	468.6	461.7	459.4
72.5°	409.1	406.8	402.3	395.4	395.4
75°	347.4	342.8	338.3	331.4	331.4
77.5°	281.1	276.6	272.0	269.7	265.1
80°	219.4	217.1	214.9	208.0	205.7
82.5°	157.7	155.4	153.1	150.9	148.6
85°	100.6	98.3	98.3	93.7	93.7
87.5°	43.4	45.7	41.1	43.4	41.1
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)