

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: P568563

Luminaire Tested: **24CGTX-45-L940**

Issue Date: 9/19/2022

Test Information

Test Method: LM-79-08
Report Number: P568563
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-L940
Description: 2X4 4500 LUMEN LED PANEL WITH SMOOTH WHITE FROSTED ACRYLIC LENS AND
4000K, 90CRI LEDS
Light Source: -
Ballast/Driver: -

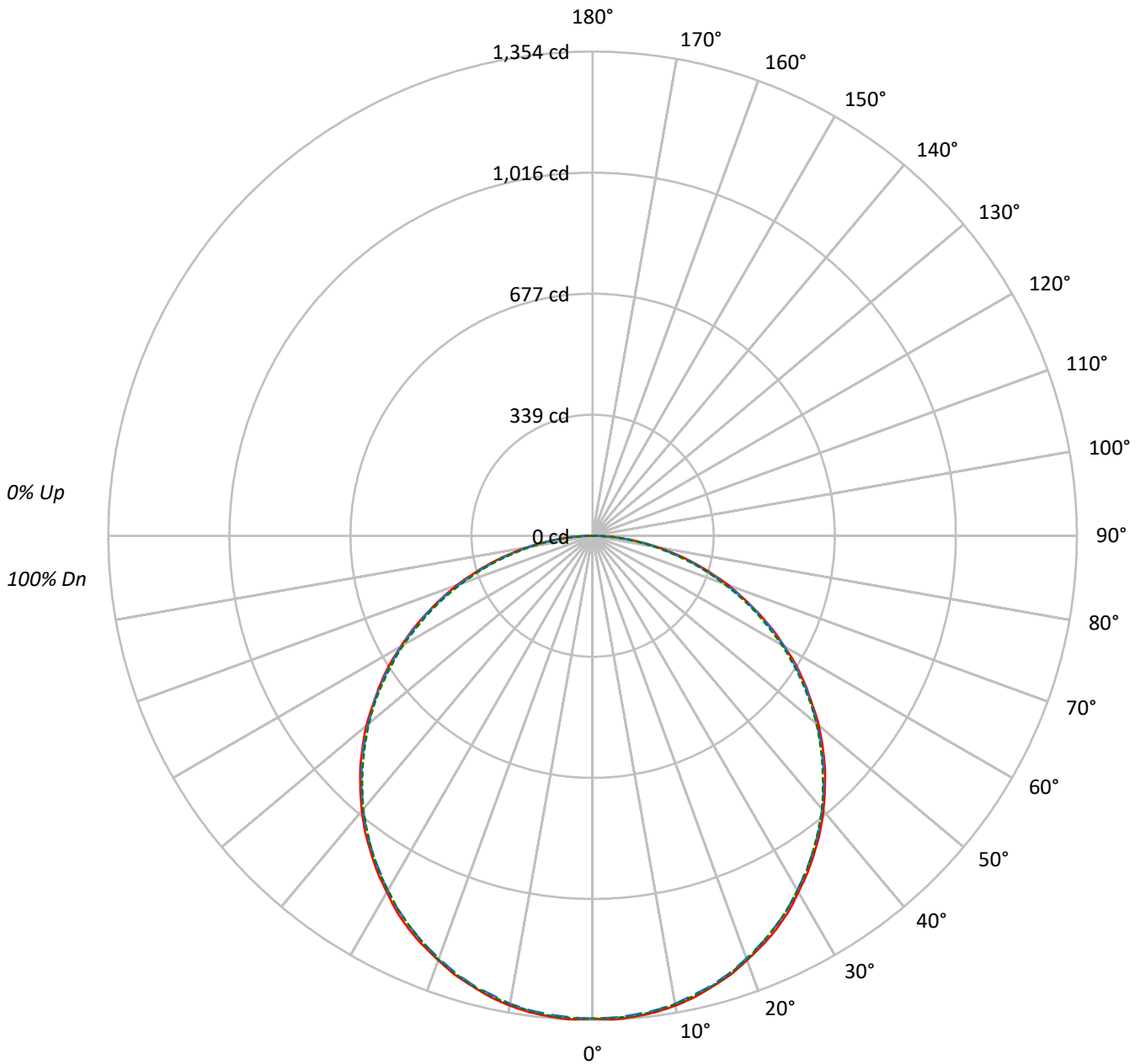
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3967.0 lumens
Efficiency: N/A
Efficacy: 111.4 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				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°	1816	1816	1816
5°	1823	1816	1821
10°	1823	1815	1818
15°	1816	1810	1813
20°	1808	1800	1806
25°	1803	1792	1792
30°	1788	1779	1779
35°	1776	1766	1766
40°	1763	1753	1753
45°	1748	1737	1730
50°	1729	1712	1708
55°	1701	1692	1679
60°	1665	1660	1645
65°	1626	1620	1595
70°	1590	1560	1530
75°	1528	1488	1458
80°	1439	1409	1349
85°	1314	1284	1224



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.9	3.2
10°-20°	366.8	9.2
20°-30°	556.6	14.0
30°-40°	673.5	17.0
40°-50°	703.6	17.7
50°-60°	643.6	16.2
60°-70°	500.9	12.6
70°-80°	301.9	7.6
80°-90°	92.0	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°	1051.4	26.5
0°-40°	1724.9	43.5
0°-60°	3072.1	77.4
0°-90°	3967.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3967.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1350	1350	1350	1350	1350	
5°	1350	1346	1344	1344	1348	128
15°	1304	1300	1300	1298	1302	368
25°	1215	1209	1207	1205	1207	559
35°	1081	1077	1075	1075	1075	677
45°	919	913	913	909	909	708
55°	725	723	721	716	716	648
65°	511	511	509	501	501	506
75°	294	290	286	280	280	309
85°	85	83	83	79	79	95
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1350.0	1350.0	1350.0	1350.0	1350.0
2.5°	1353.9	1350.0	1348.1	1348.1	1350.0
5°	1350.0	1346.1	1344.2	1344.2	1348.1
7.5°	1344.2	1338.4	1338.4	1336.5	1340.3
10°	1334.5	1328.7	1328.7	1326.8	1330.7
12.5°	1321.0	1315.2	1313.3	1313.3	1317.1
15°	1303.6	1299.7	1299.7	1297.8	1301.7
17.5°	1286.2	1280.4	1280.4	1278.5	1282.3
20°	1263.0	1259.1	1257.2	1257.2	1261.0
22.5°	1239.8	1235.9	1234.0	1234.0	1234.0
25°	1214.6	1208.8	1206.9	1205.0	1206.9
27.5°	1185.6	1177.9	1177.9	1175.9	1177.9
30°	1150.8	1146.9	1145.0	1143.1	1145.0
32.5°	1117.9	1112.1	1110.2	1112.1	1112.1
35°	1081.2	1077.3	1075.4	1075.4	1075.4
37.5°	1044.4	1038.6	1038.6	1036.7	1036.7
40°	1003.8	999.9	998.0	998.0	998.0
42.5°	961.3	957.4	955.5	953.5	953.5
45°	918.7	912.9	912.9	909.0	909.0
47.5°	872.3	868.4	866.5	862.6	862.6
50°	825.9	822.0	818.1	818.1	816.2
52.5°	773.6	773.6	771.7	767.8	767.8
55°	725.3	723.4	721.4	715.6	715.6
57.5°	675.0	673.1	669.2	663.4	663.4
60°	618.9	618.9	617.0	609.2	611.2
62.5°	566.7	564.8	562.8	557.0	555.1
65°	510.6	510.6	508.7	500.9	500.9
67.5°	456.5	456.5	452.6	444.8	444.8
70°	404.2	398.4	396.5	390.7	388.8
72.5°	346.2	344.3	340.4	334.6	334.6
75°	294.0	290.1	286.2	280.4	280.4
77.5°	237.9	234.0	230.2	228.2	224.4
80°	185.7	183.7	181.8	176.0	174.1
82.5°	133.5	131.5	129.6	127.7	125.7
85°	85.1	83.2	83.2	79.3	79.3
87.5°	36.7	38.7	34.8	36.7	34.8
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)