

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: CORELITE

Report Number: P601178

Luminaire Tested: 24D3X-LP-55-L840

Issue Date: 10/6/2023

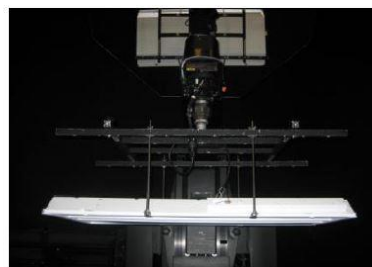
Test Information

Test Method: LM-79-2019
Report Number: P601178
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2305-008-4)
Test Lab: INNOVATION CENTER
Issue Date: 10/6/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24D3X-LP-55-L840
Description: 2x4 D3X-LP AT 5500LM 4000K 80CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

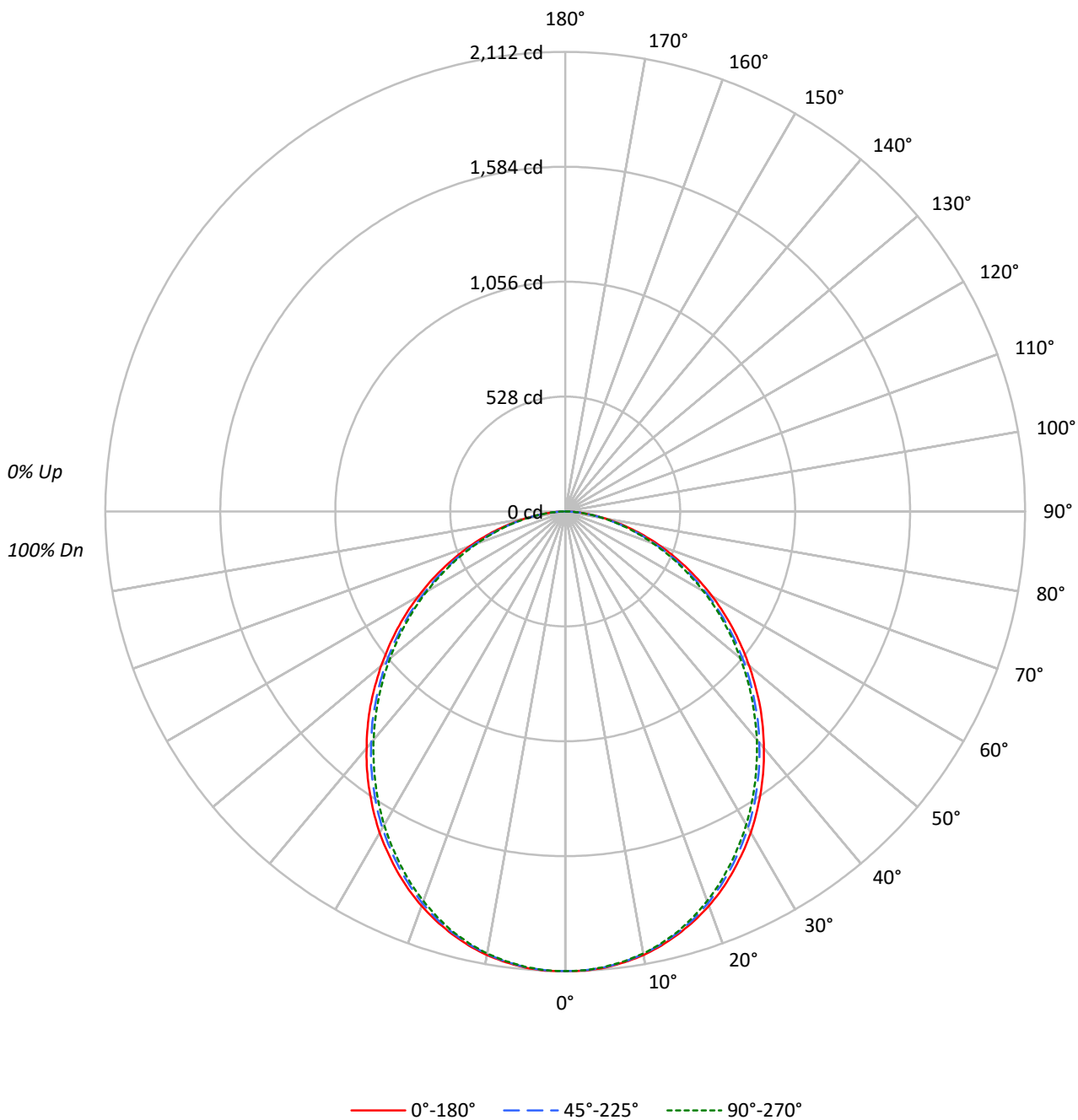
Lumens per Lamp: N/A
Luminaire Lumens: 5326.0 lumens
Efficiency: N/A
Efficacy: 129.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41.2
Input Voltage (V): 120
Input Current (Ain): 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: 24 FT



TEST NUMBER: P601178
CATALOG NUMBER: 24D3X-LP-55-L840

Luminous Intensity Polar Plot





TEST NUMBER: P601178
 CATALOG NUMBER: 24D3X-LP-55-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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	79	97	90	84	78	86	81	77	83	79	75	80	76	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	51	43	38	49	42	38	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	33	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	31	41	35	30	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2842	2842	2842
5°	2842	2839	2837
10°	2829	2822	2819
15°	2800	2791	2784
20°	2762	2744	2728
25°	2710	2680	2659
30°	2649	2609	2584
35°	2574	2525	2497
40°	2493	2435	2405
45°	2407	2339	2305
50°	2309	2238	2198
55°	2208	2130	2090
60°	2094	2010	1973
65°	1971	1879	1840
70°	1834	1735	1692
75°	1664	1570	1544
80°	1441	1364	1371
85°	1189	1173	1096

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2407 cd/sqm



TEST NUMBER: P601178
 CATALOG NUMBER: 24D3X-LP-55-L840

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.5	3.7
10°-20°	564.6	10.6
20°-30°	832.1	15.6
30°-40°	963.3	18.1
40°-50°	951.0	17.9
50°-60°	814.5	15.3
60°-70°	588.9	11.1
70°-80°	324.6	6.1
80°-90°	87.4	1.6
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°	1596.2	30.0
0°-40°	2559.5	48.1
0°-60°	4325.0	81.2
0°-90°	5326.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5326.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2112	2112	2112	2112	2112	
5°	2104	2103	2102	2100	2100	200
15°	2010	2008	2003	2000	1998	567
25°	1825	1820	1805	1796	1791	840
35°	1567	1557	1537	1524	1520	980
45°	1265	1248	1229	1217	1211	975
55°	941	923	908	895	891	841
65°	619	605	590	581	578	614
75°	320	310	302	301	297	340
85°	77	77	76	71	71	91
90°	0	0	0	0	0	



TEST NUMBER: P601178
 CATALOG NUMBER: 24D3X-LP-55-L840

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2112.3	2112.3	2112.3	2112.3	2112.3
2.5°	2112.3	2112.3	2110.3	2110.3	2110.3
5°	2104.3	2103.3	2102.3	2100.3	2100.3
7.5°	2089.3	2089.3	2086.3	2086.3	2084.3
10°	2070.3	2068.3	2065.3	2065.3	2063.3
12.5°	2043.3	2041.3	2037.3	2036.3	2033.3
15°	2010.3	2008.3	2003.3	2000.3	1998.3
17.5°	1972.3	1969.3	1963.3	1958.3	1954.3
20°	1929.3	1925.3	1916.3	1910.3	1905.3
22.5°	1880.3	1876.3	1863.3	1856.3	1851.3
25°	1825.3	1820.3	1805.3	1796.2	1791.2
27.5°	1766.2	1760.2	1743.2	1733.2	1728.2
30°	1705.2	1696.2	1679.2	1667.2	1663.2
32.5°	1637.2	1628.2	1611.2	1597.2	1593.2
35°	1567.2	1557.2	1537.2	1524.2	1520.2
37.5°	1495.2	1482.2	1464.2	1451.2	1445.2
40°	1419.2	1406.2	1386.2	1372.2	1369.2
42.5°	1343.2	1327.2	1310.2	1296.2	1290.2
45°	1265.2	1248.2	1229.2	1217.2	1211.2
47.5°	1183.2	1167.2	1150.2	1136.2	1131.2
50°	1103.2	1086.2	1069.1	1056.1	1050.1
52.5°	1021.1	1004.1	988.1	977.1	971.1
55°	941.1	923.1	908.1	895.1	891.1
57.5°	860.1	844.1	827.1	815.1	812.1
60°	778.1	764.1	747.1	736.1	733.1
62.5°	699.1	685.1	669.1	658.1	653.1
65°	619.1	605.1	590.1	581.1	578.1
67.5°	541.1	528.1	515.1	506.1	504.1
70°	466.1	453.1	441.1	433.1	430.1
72.5°	391.1	382.1	370.1	365.1	362.1
75°	320.0	310.0	302.0	301.0	297.0
77.5°	251.0	250.0	237.0	235.0	235.0
80°	186.0	183.0	176.0	174.0	177.0
82.5°	128.0	126.0	122.0	121.0	120.0
85°	77.0	77.0	76.0	71.0	71.0
87.5°	35.0	34.0	33.0	34.0	37.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)