

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: P601171

Luminaire Tested: 24D3X-LP-50-L835

Issue Date: 10/6/2023

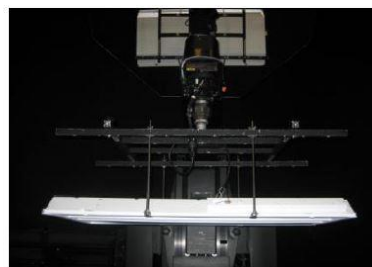
Test Information

Test Method: LM-79-2019
Report Number: P601171
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-50-L835
Description: 2x4 D3X-LP AT 5000LM 3500K 80CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

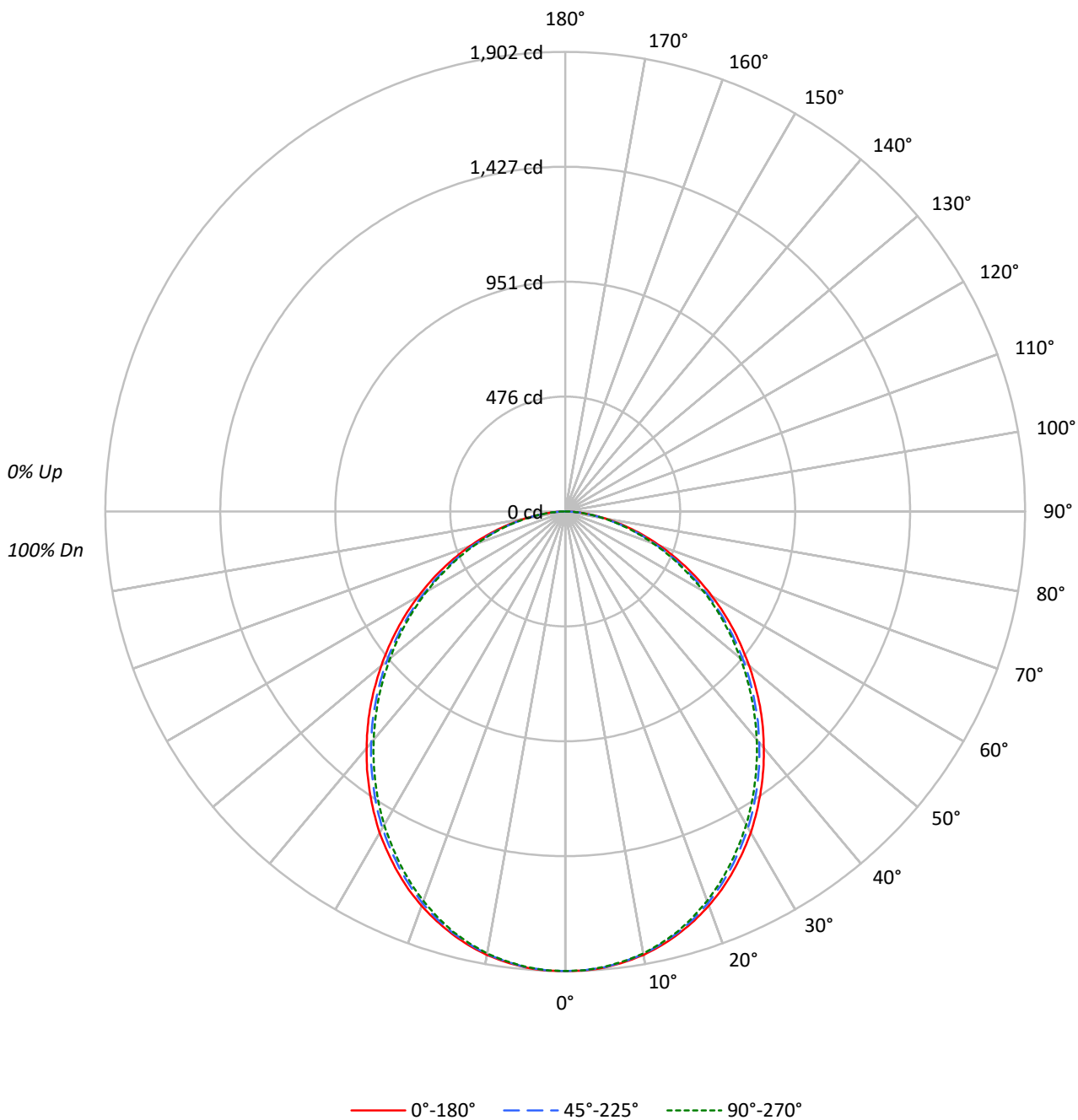
Lumens per Lamp: N/A
Luminaire Lumens: 4795.0 lumens
Efficiency: N/A
Efficacy: 129.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 37
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



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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	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	30	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°	2559	2559	2559
5°	2559	2556	2554
10°	2547	2540	2538
15°	2521	2512	2506
20°	2487	2470	2456
25°	2440	2413	2394
30°	2385	2349	2326
35°	2318	2273	2248
40°	2244	2192	2165
45°	2167	2106	2075
50°	2079	2015	1979
55°	1988	1918	1882
60°	1885	1810	1776
65°	1775	1691	1657
70°	1651	1562	1523
75°	1498	1413	1390
80°	1298	1228	1235
85°	1070	1056	986

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2167 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.6	3.7
10°-20°	508.3	10.6
20°-30°	749.1	15.6
30°-40°	867.2	18.1
40°-50°	856.2	17.9
50°-60°	733.3	15.3
60°-70°	530.2	11.1
70°-80°	292.3	6.1
80°-90°	78.7	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°	1437.1	30.0
0°-40°	2304.3	48.1
0°-60°	3893.8	81.2
0°-90°	4795.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4795.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1902	1902	1902	1902	1902	
5°	1894	1894	1893	1891	1891	180
15°	1810	1808	1804	1801	1799	510
25°	1643	1639	1625	1617	1613	757
35°	1411	1402	1384	1372	1369	882
45°	1139	1124	1107	1096	1090	878
55°	847	831	818	806	802	757
65°	557	545	531	523	520	553
75°	288	279	272	271	267	306
85°	69	69	68	64	64	82
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1901.7	1901.7	1901.7	1901.7	1901.7
2.5°	1901.7	1901.7	1899.9	1899.9	1899.9
5°	1894.5	1893.6	1892.7	1890.9	1890.9
7.5°	1881.0	1881.0	1878.3	1878.3	1876.5
10°	1863.9	1862.1	1859.4	1859.4	1857.6
12.5°	1839.6	1837.8	1834.2	1833.3	1830.6
15°	1809.9	1808.1	1803.6	1800.9	1799.1
17.5°	1775.6	1772.9	1767.5	1763.0	1759.4
20°	1736.9	1733.3	1725.2	1719.8	1715.3
22.5°	1692.8	1689.2	1677.5	1671.2	1666.7
25°	1643.3	1638.8	1625.3	1617.2	1612.7
27.5°	1590.2	1584.7	1569.4	1560.4	1555.9
30°	1535.2	1527.1	1511.8	1501.0	1497.4
32.5°	1474.0	1465.9	1450.6	1438.0	1434.4
35°	1411.0	1402.0	1384.0	1372.2	1368.6
37.5°	1346.1	1334.4	1318.2	1306.5	1301.1
40°	1277.7	1266.0	1248.0	1235.4	1232.7
42.5°	1209.3	1194.9	1179.6	1167.0	1161.5
45°	1139.0	1123.7	1106.6	1095.8	1090.4
47.5°	1065.2	1050.8	1035.5	1022.9	1018.4
50°	993.2	977.9	962.6	950.8	945.4
52.5°	919.3	904.0	889.6	879.7	874.3
55°	847.3	831.1	817.6	805.9	802.3
57.5°	774.4	760.0	744.7	733.8	731.1
60°	700.5	687.9	672.6	662.7	660.0
62.5°	629.4	616.8	602.4	592.5	588.0
65°	557.4	544.8	531.3	523.1	520.4
67.5°	487.1	475.4	463.7	455.6	453.8
70°	419.6	407.9	397.1	389.9	387.2
72.5°	352.1	344.0	333.2	328.7	326.0
75°	288.1	279.1	271.9	271.0	267.4
77.5°	226.0	225.1	213.4	211.6	211.6
80°	167.5	164.8	158.5	156.7	159.4
82.5°	115.3	113.5	109.9	109.0	108.1
85°	69.3	69.3	68.4	63.9	63.9
87.5°	31.5	30.6	29.7	30.6	33.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)