

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: P601183

Luminaire Tested: 24D3X-LP-60-L835

Issue Date: 10/6/2023

Test Information

Test Method: LM-79-2019
Report Number: P601183
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-60-L835
Description: 2x4 D3X-LP AT 6000LM 3500K 80CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

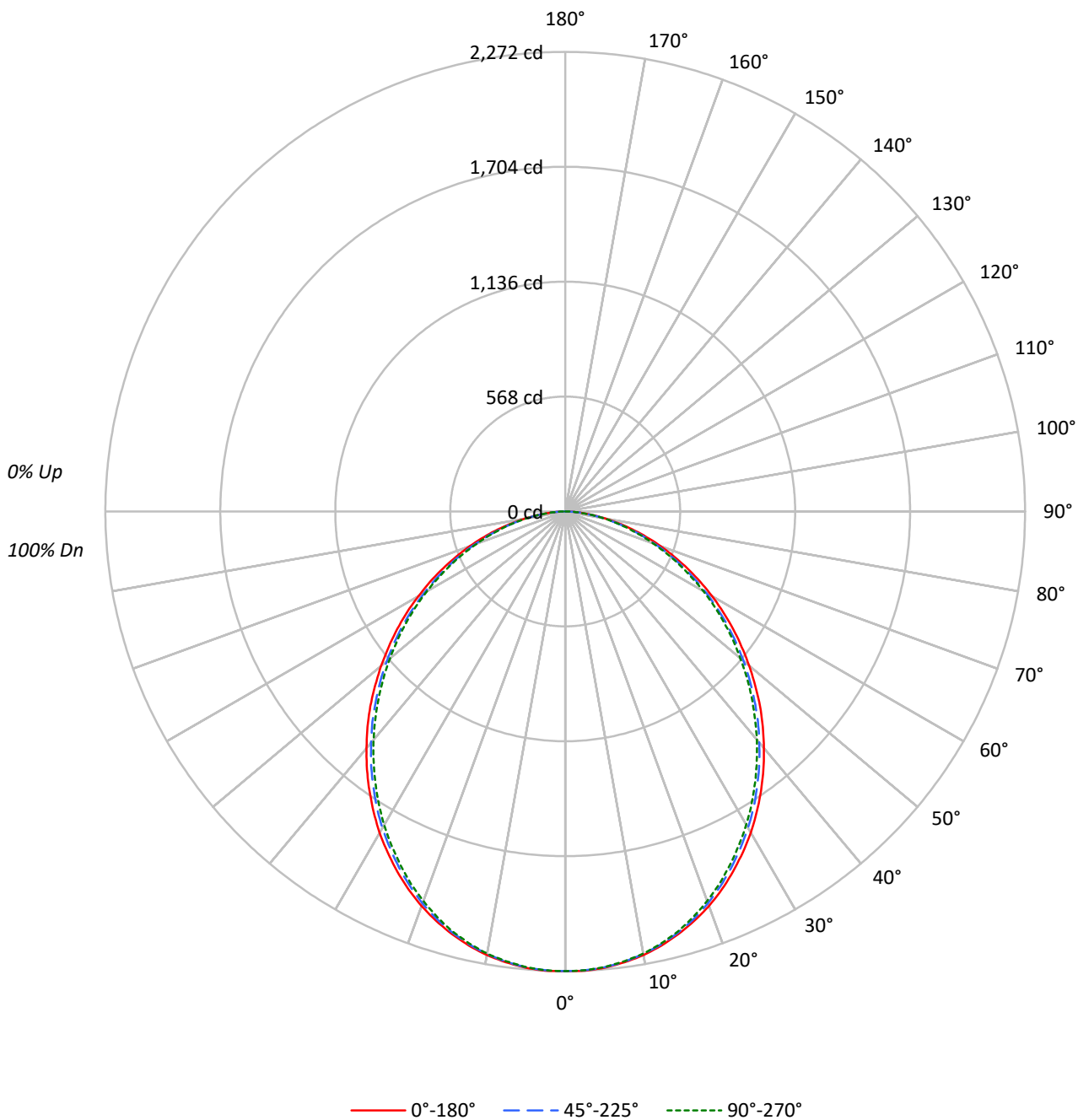
Lumens per Lamp: N/A
Luminaire Lumens: 5730.0 lumens
Efficiency: N/A
Efficacy: 127.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 44.9
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°	3058	3058	3058
5°	3058	3055	3052
10°	3043	3036	3033
15°	3013	3002	2995
20°	2972	2952	2935
25°	2915	2883	2861
30°	2850	2807	2780
35°	2769	2716	2686
40°	2682	2619	2587
45°	2590	2516	2479
50°	2484	2408	2365
55°	2375	2292	2249
60°	2253	2163	2122
65°	2120	2021	1980
70°	1972	1867	1820
75°	1790	1690	1661
80°	1550	1468	1476
85°	1280	1263	1179

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2590 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.6	3.7
10°-20°	607.4	10.6
20°-30°	895.2	15.6
30°-40°	1036.3	18.1
40°-50°	1023.1	17.9
50°-60°	876.3	15.3
60°-70°	633.6	11.1
70°-80°	349.3	6.1
80°-90°	94.1	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°	1717.3	30.0
0°-40°	2753.6	48.1
0°-60°	4653.1	81.2
0°-90°	5730.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5730.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2272	2272	2272	2272	2272	
5°	2264	2263	2262	2260	2260	215
15°	2163	2161	2155	2152	2150	610
25°	1964	1958	1942	1932	1927	904
35°	1686	1675	1654	1640	1636	1054
45°	1361	1343	1322	1310	1303	1049
55°	1012	993	977	963	959	905
65°	666	651	635	625	622	660
75°	344	334	325	324	320	365
85°	83	83	82	76	76	97
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2272.5	2272.5	2272.5	2272.5	2272.5
2.5°	2272.5	2272.5	2270.4	2270.4	2270.4
5°	2263.9	2262.8	2261.8	2259.6	2259.6
7.5°	2247.8	2247.8	2244.5	2244.5	2242.4
10°	2227.3	2225.2	2221.9	2221.9	2219.8
12.5°	2198.3	2196.1	2191.8	2190.7	2187.5
15°	2162.8	2160.6	2155.2	2152.0	2149.9
17.5°	2121.9	2118.7	2112.2	2106.8	2102.5
20°	2075.6	2071.3	2061.6	2055.2	2049.8
22.5°	2022.9	2018.6	2004.6	1997.1	1991.7
25°	1963.7	1958.3	1942.2	1932.5	1927.1
27.5°	1900.2	1893.8	1875.5	1864.7	1859.3
30°	1834.6	1824.9	1806.6	1793.7	1789.4
32.5°	1761.4	1751.7	1733.4	1718.4	1714.1
35°	1686.1	1675.3	1653.8	1639.8	1635.5
37.5°	1608.6	1594.6	1575.3	1561.3	1554.8
40°	1526.8	1512.9	1491.3	1476.3	1473.0
42.5°	1445.1	1427.9	1409.6	1394.5	1388.0
45°	1361.1	1342.9	1322.4	1309.5	1303.0
47.5°	1272.9	1255.7	1237.4	1222.3	1217.0
50°	1186.8	1168.5	1150.2	1136.3	1129.8
52.5°	1098.6	1080.3	1063.1	1051.3	1044.8
55°	1012.5	993.2	977.0	963.0	958.7
57.5°	925.4	908.1	889.9	876.9	873.7
60°	837.1	822.1	803.8	791.9	788.7
62.5°	752.1	737.1	719.8	708.0	702.6
65°	666.0	651.0	634.8	625.2	621.9
67.5°	582.1	568.1	554.1	544.5	542.3
70°	501.4	487.4	474.5	465.9	462.7
72.5°	420.7	411.0	398.1	392.7	389.5
75°	344.3	333.6	325.0	323.9	319.6
77.5°	270.1	269.0	255.0	252.9	252.9
80°	200.1	196.9	189.4	187.2	190.5
82.5°	137.7	135.6	131.3	130.2	129.1
85°	82.9	82.9	81.8	76.4	76.4
87.5°	37.7	36.6	35.5	36.6	39.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)