

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: P995545

Luminaire Tested: 22D3X-LP-WD-55-L850.ies

Issue Date: 12/20/2023

Test Information

Test Method: LM-79-2019
Report Number: P995545
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2307-104-1)
Test Lab: INNOVATION CENTER
Issue Date: 12/20/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 22D3X-LP-WD-55-L850.ies
Description: 2x2 D3X-LP AT 5500LM 5000K 80CRI
Light Source: -
Ballast/Driver: -

Summary

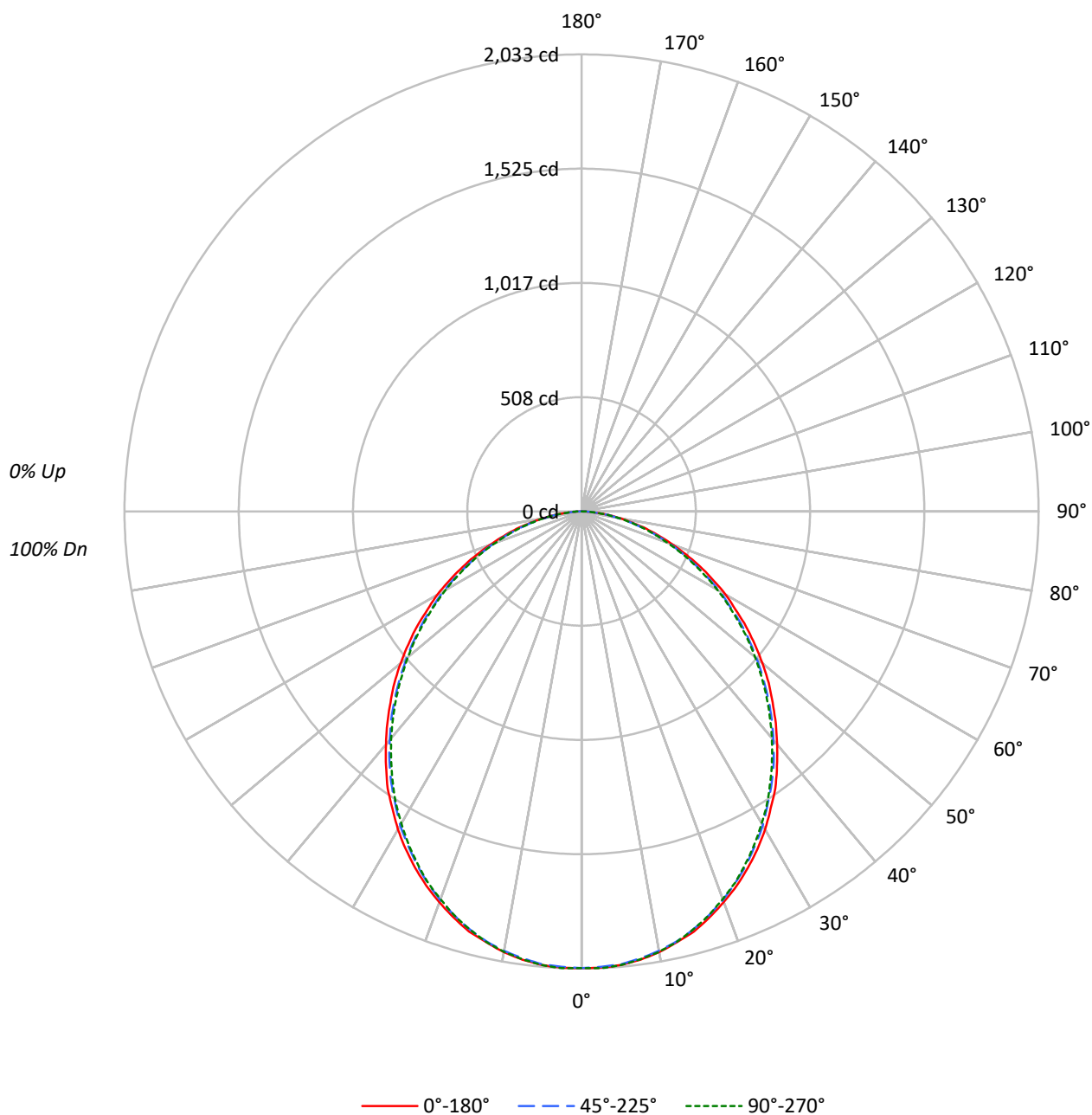
Lumens per Lamp: N/A
Luminaire Lumens: 5076.3 lumens
Efficiency: N/A
Efficacy: 111.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 45.4
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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85		
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73	71		
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61		
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52		
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	45		
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	40		
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	36		
8	62	49	40	34	60	48	40	34	47	39	34	45	39	34	44	38	34	32		
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	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°	5466	5466	5466
5°	5471	5460	5471
10°	5440	5424	5435
15°	5389	5361	5361
20°	5296	5267	5255
25°	5197	5149	5130
30°	5074	5011	4979
35°	4938	4845	4812
40°	4755	4663	4627
45°	4574	4466	4427
50°	4396	4252	4218
55°	4196	4044	3987
60°	3985	3812	3757
65°	3710	3530	3491
70°	3391	3264	3184
75°	3092	2903	2924
80°	2665	2509	2540
85°	2062	1998	1874

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4574 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.9	3.8
10°-20°	542.6	10.7
20°-30°	799.1	15.7
30°-40°	924.4	18.2
40°-50°	908.8	17.9
50°-60°	774.5	15.3
60°-70°	554.9	10.9
70°-80°	301.4	5.9
80°-90°	78.6	1.5
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°	1533.6	30.2
0°-40°	2458.0	48.4
0°-60°	4141.3	81.6
0°-90°	5076.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5076.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2031	2031	2031	2031	2031	
5°	2025	2021	2021	2021	2025	192
15°	1934	1926	1924	1922	1924	544
25°	1750	1742	1734	1730	1728	806
35°	1503	1491	1475	1467	1465	937
45°	1202	1194	1174	1163	1163	928
55°	894	878	862	852	850	798
65°	583	571	554	548	548	577
75°	297	287	279	275	281	314
85°	67	67	65	63	61	81
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2031.4	2031.4	2031.4	2031.4	2031.4
2.5°	2031.4	2029.4	2027.3	2029.4	2033.4
5°	2025.3	2021.3	2021.3	2021.3	2025.3
7.5°	2011.2	2007.1	2005.1	2007.1	2009.1
10°	1990.9	1986.9	1984.9	1986.9	1988.9
12.5°	1962.6	1960.6	1958.6	1958.6	1960.6
15°	1934.3	1926.2	1924.2	1922.1	1924.2
17.5°	1893.8	1891.8	1883.7	1883.7	1883.7
20°	1849.3	1845.2	1839.2	1835.1	1835.1
22.5°	1802.8	1798.7	1788.6	1784.5	1786.6
25°	1750.2	1742.1	1734.0	1729.9	1727.9
27.5°	1693.5	1685.4	1673.3	1667.2	1667.2
30°	1632.8	1626.7	1612.6	1604.5	1602.5
32.5°	1566.0	1562.0	1541.8	1537.7	1537.7
35°	1503.3	1491.2	1475.0	1466.9	1464.9
37.5°	1428.4	1420.4	1404.2	1394.1	1392.0
40°	1353.6	1343.5	1327.3	1319.2	1317.2
42.5°	1278.7	1268.6	1252.4	1242.3	1240.3
45°	1201.8	1193.7	1173.5	1163.4	1163.4
47.5°	1129.0	1112.8	1094.6	1086.5	1084.5
50°	1050.1	1035.9	1015.7	1007.6	1007.6
52.5°	971.2	961.1	938.8	934.8	930.7
55°	894.3	878.1	861.9	851.8	849.8
57.5°	811.3	797.2	781.0	772.9	772.9
60°	740.5	722.3	708.2	698.0	698.0
62.5°	659.6	643.4	629.2	623.2	621.2
65°	582.7	570.6	554.4	548.3	548.3
67.5°	505.8	495.7	481.5	475.5	477.5
70°	431.0	424.9	414.8	406.7	404.7
72.5°	362.2	354.1	344.0	341.9	341.9
75°	297.4	287.3	279.2	275.2	281.2
77.5°	230.7	224.6	220.5	218.5	220.5
80°	172.0	163.9	161.9	163.9	163.9
82.5°	119.4	115.3	113.3	113.3	113.3
85°	66.8	66.8	64.7	62.7	60.7
87.5°	26.3	26.3	28.3	28.3	30.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)