

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: P995606

Luminaire Tested: 24D3X-LP-WD-45-L835.ies

Issue Date: 12/21/2023

Test Information

Test Method: LM-79-2019
Report Number: P995606
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2305-008-4)
Test Lab: INNOVATION CENTER
Issue Date: 12/21/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24D3X-LP-WD-45-L835.ies
Description: 2x4 D3X-LP AT 4500LM 3500K 80CRI
Light Source: -
Ballast/Driver: -

Summary

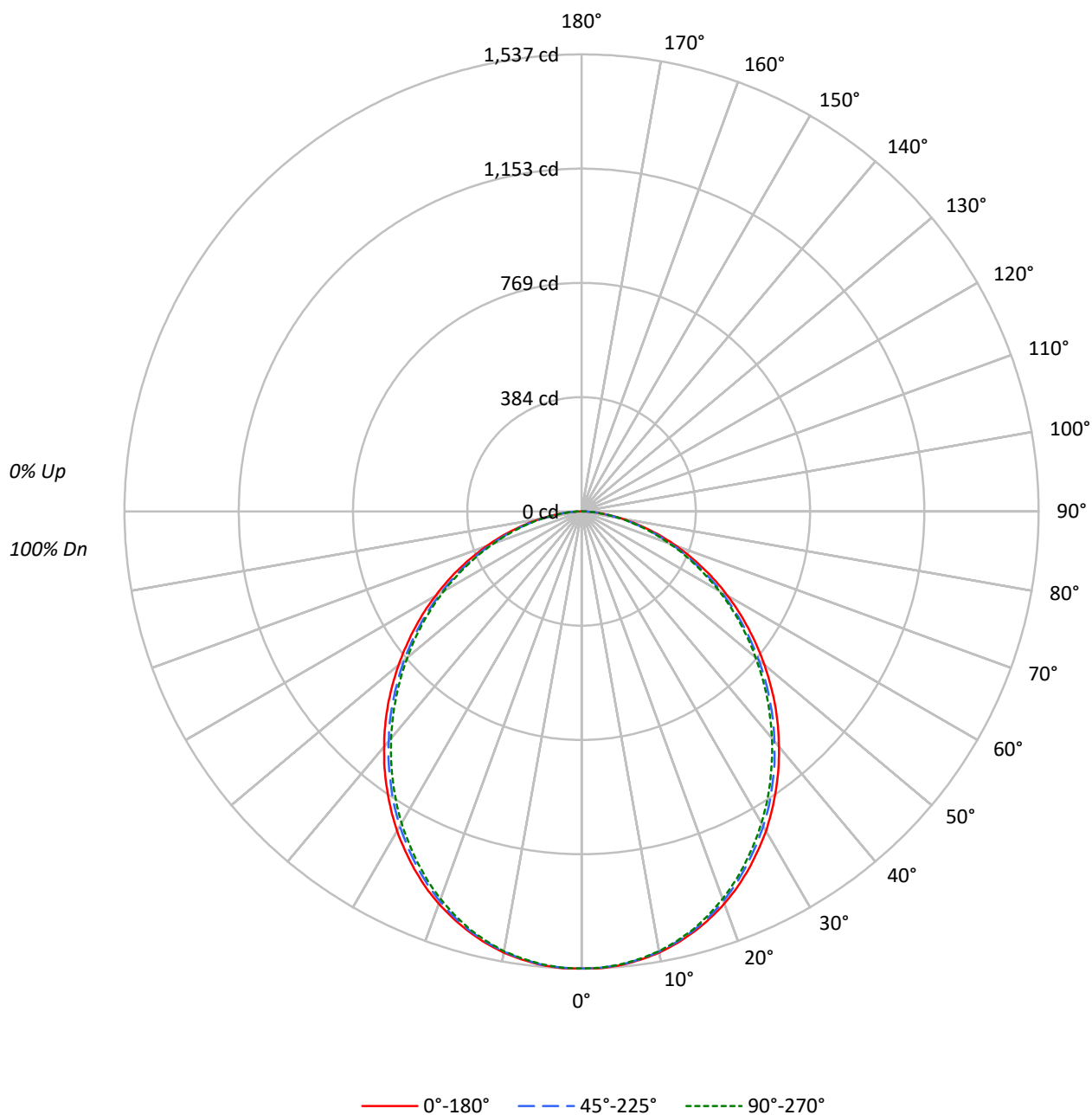
Lumens per Lamp: N/A
Luminaire Lumens: 3876.3 lumens
Efficiency: N/A
Efficacy: 117.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2068	2068	2068
5°	2068	2067	2065
10°	2059	2054	2052
15°	2038	2031	2026
20°	2010	1997	1986
25°	1972	1951	1935
30°	1928	1899	1881
35°	1873	1838	1817
40°	1814	1772	1750
45°	1752	1702	1677
50°	1681	1629	1600
55°	1607	1550	1521
60°	1524	1463	1436
65°	1435	1367	1339
70°	1334	1263	1231
75°	1211	1143	1124
80°	1049	993	998
85°	865	854	798

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1752 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.2	3.7
10°-20°	410.9	10.6
20°-30°	605.6	15.6
30°-40°	701.1	18.1
40°-50°	692.1	17.9
50°-60°	592.8	15.3
60°-70°	428.6	11.1
70°-80°	236.3	6.1
80°-90°	63.6	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°	1161.7	30.0
0°-40°	1862.8	48.1
0°-60°	3147.8	81.2
0°-90°	3876.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3876.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1537	1537	1537	1537	1537	
5°	1532	1531	1530	1529	1529	145
15°	1463	1462	1458	1456	1454	412
25°	1328	1325	1314	1307	1304	612
35°	1141	1133	1119	1109	1106	713
45°	921	908	895	886	882	710
55°	685	672	661	652	649	612
65°	451	440	430	423	421	447
75°	233	226	220	219	216	247
85°	56	56	55	52	52	66
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1537.3	1537.3	1537.3	1537.3	1537.3
2.5°	1537.3	1537.3	1535.9	1535.9	1535.9
5°	1531.5	1530.8	1530.1	1528.6	1528.6
7.5°	1520.6	1520.6	1518.4	1518.4	1517.0
10°	1506.8	1505.3	1503.1	1503.1	1501.7
12.5°	1487.1	1485.7	1482.7	1482.0	1479.8
15°	1463.1	1461.6	1458.0	1455.8	1454.4
17.5°	1435.4	1433.3	1428.9	1425.2	1422.3
20°	1404.1	1401.2	1394.7	1390.3	1386.7
22.5°	1368.5	1365.6	1356.1	1351.0	1347.4
25°	1328.4	1324.8	1313.9	1307.3	1303.7
27.5°	1285.5	1281.1	1268.7	1261.5	1257.8
30°	1241.1	1234.5	1222.2	1213.4	1210.5
32.5°	1191.6	1185.0	1172.7	1162.5	1159.6
35°	1140.6	1133.4	1118.8	1109.3	1106.4
37.5°	1088.2	1078.8	1065.7	1056.2	1051.8
40°	1032.9	1023.4	1008.9	998.7	996.5
42.5°	977.6	965.9	953.6	943.4	939.0
45°	920.8	908.4	894.6	885.9	881.5
47.5°	861.1	849.5	837.1	826.9	823.3
50°	802.9	790.5	778.1	768.7	764.3
52.5°	743.2	730.8	719.2	711.2	706.8
55°	685.0	671.9	660.9	651.5	648.6
57.5°	626.0	614.4	602.0	593.2	591.1
60°	566.3	556.1	543.7	535.7	533.6
62.5°	508.8	498.6	487.0	479.0	475.3
65°	450.6	440.4	429.5	422.9	420.7
67.5°	393.8	384.3	374.9	368.3	366.9
70°	339.2	329.7	321.0	315.2	313.0
72.5°	284.6	278.1	269.3	265.7	263.5
75°	232.9	225.7	219.8	219.1	216.2
77.5°	182.7	182.0	172.5	171.1	171.1
80°	135.4	133.2	128.1	126.7	128.8
82.5°	93.2	91.7	88.8	88.1	87.3
85°	56.0	56.0	55.3	51.7	51.7
87.5°	25.5	24.7	24.0	24.7	26.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)