

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: P601167

Luminaire Tested: 24D3X-LP-45-L930

Issue Date: 10/6/2023

Test Information

Test Method: LM-79-2019
Report Number: P601167
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-45-L930
Description: 2x4 D3X-LP AT 4500LM 3000K 90CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

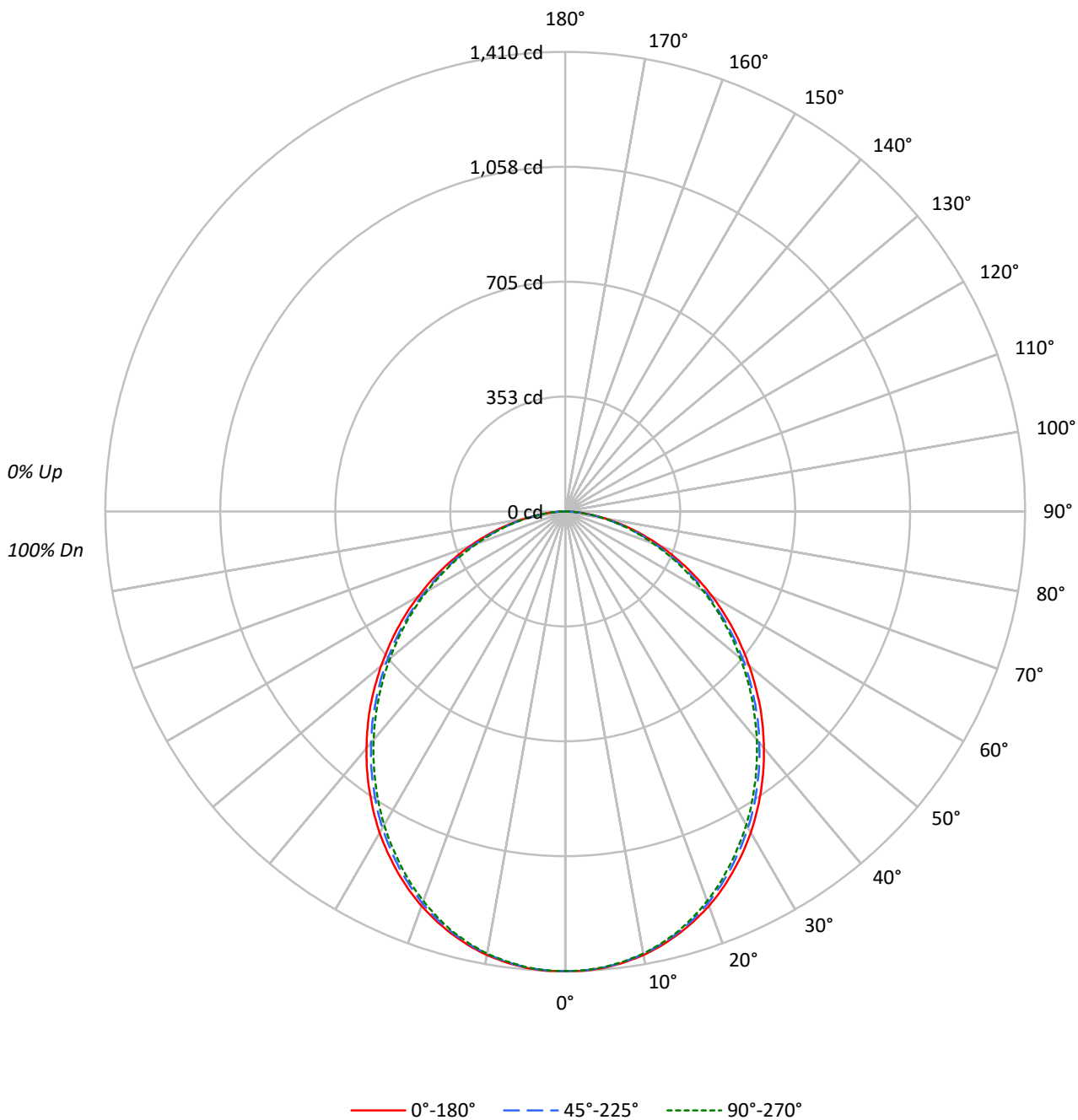
Lumens per Lamp: N/A
Luminaire Lumens: 3556.0 lumens
Efficiency: N/A
Efficacy: 107.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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				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°	1898	1898	1898
5°	1898	1896	1894
10°	1889	1884	1882
15°	1870	1863	1858
20°	1844	1832	1821
25°	1809	1789	1776
30°	1769	1742	1725
35°	1719	1686	1667
40°	1664	1626	1606
45°	1607	1562	1539
50°	1542	1494	1468
55°	1474	1422	1396
60°	1398	1342	1317
65°	1316	1254	1229
70°	1224	1159	1129
75°	1111	1049	1031
80°	962	910	916
85°	794	783	732

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1607 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.2	3.7
10°-20°	377.0	10.6
20°-30°	555.6	15.6
30°-40°	643.1	18.1
40°-50°	635.0	17.9
50°-60°	543.8	15.3
60°-70°	393.2	11.1
70°-80°	216.8	6.1
80°-90°	58.4	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°	1065.7	30.0
0°-40°	1708.9	48.1
0°-60°	2887.7	81.2
0°-90°	3556.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3556.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1410	1410	1410	1410	1410	
5°	1405	1404	1404	1402	1402	133
15°	1342	1341	1338	1336	1334	378
25°	1219	1215	1205	1199	1196	561
35°	1046	1040	1026	1018	1015	654
45°	845	833	821	813	809	651
55°	628	616	606	598	595	562
65°	413	404	394	388	386	410
75°	214	207	202	201	198	227
85°	51	51	51	47	47	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1410.3	1410.3	1410.3	1410.3	1410.3
2.5°	1410.3	1410.3	1409.0	1409.0	1409.0
5°	1405.0	1404.3	1403.6	1402.3	1402.3
7.5°	1395.0	1395.0	1392.9	1392.9	1391.6
10°	1382.3	1380.9	1378.9	1378.9	1377.6
12.5°	1364.2	1362.9	1360.2	1359.6	1357.6
15°	1342.2	1340.9	1337.5	1335.5	1334.2
17.5°	1316.8	1314.8	1310.8	1307.5	1304.8
20°	1288.1	1285.4	1279.4	1275.4	1272.1
22.5°	1255.4	1252.7	1244.0	1239.4	1236.0
25°	1218.7	1215.3	1205.3	1199.3	1196.0
27.5°	1179.3	1175.3	1163.9	1157.2	1153.9
30°	1138.5	1132.5	1121.2	1113.2	1110.5
32.5°	1093.1	1087.1	1075.8	1066.4	1063.7
35°	1046.4	1039.7	1026.3	1017.7	1015.0
37.5°	998.3	989.6	977.6	968.9	964.9
40°	947.6	938.9	925.5	916.2	914.2
42.5°	896.8	886.1	874.8	865.4	861.4
45°	844.7	833.4	820.7	812.7	808.7
47.5°	790.0	779.3	767.9	758.6	755.2
50°	736.5	725.2	713.8	705.2	701.1
52.5°	681.8	670.4	659.7	652.4	648.4
55°	628.4	616.3	606.3	597.6	595.0
57.5°	574.3	563.6	552.2	544.2	542.2
60°	519.5	510.2	498.8	491.5	489.5
62.5°	466.8	457.4	446.7	439.4	436.0
65°	413.3	404.0	394.0	388.0	386.0
67.5°	361.3	352.6	343.9	337.9	336.6
70°	311.2	302.5	294.5	289.1	287.1
72.5°	261.1	255.1	247.1	243.7	241.7
75°	213.7	207.0	201.7	201.0	198.3
77.5°	167.6	166.9	158.3	156.9	156.9
80°	124.2	122.2	117.5	116.2	118.2
82.5°	85.5	84.1	81.5	80.8	80.1
85°	51.4	51.4	50.7	47.4	47.4
87.5°	23.4	22.7	22.0	22.7	24.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)