

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: P601152

Luminaire Tested: 24D3X-LP-35-L830

Issue Date: 10/6/2023

Test Information

Test Method: LM-79-2019
Report Number: P601152
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-35-L830
Description: 2x4 D3X-LP AT 3500LM 3000K 80CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

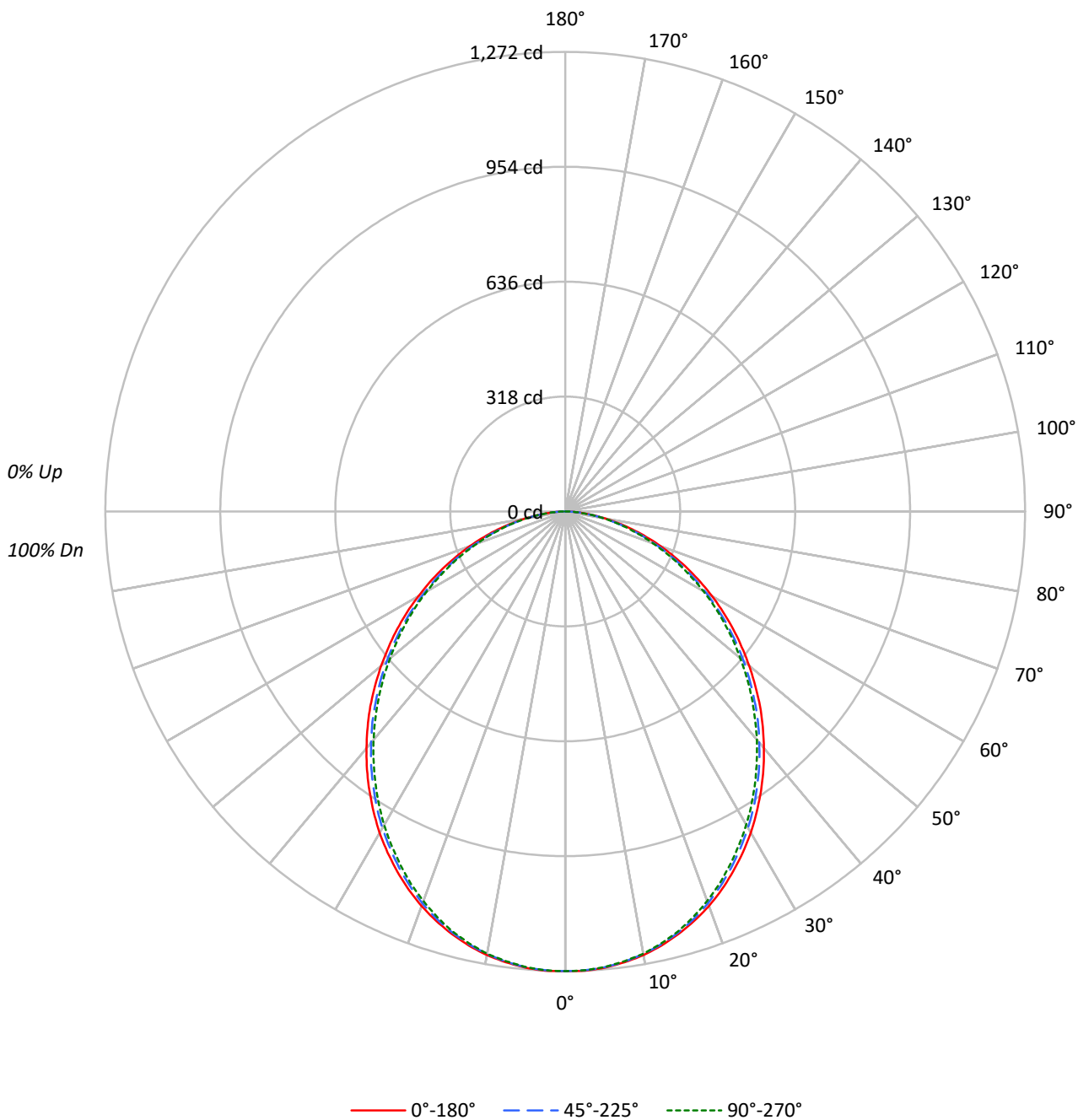
Lumens per Lamp: N/A
Luminaire Lumens: 3208.0 lumens
Efficiency: N/A
Efficacy: 126.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 25.3
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	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	
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°	1712	1712	1712
5°	1712	1710	1709
10°	1704	1700	1698
15°	1687	1681	1677
20°	1664	1653	1643
25°	1632	1614	1602
30°	1596	1571	1556
35°	1551	1521	1504
40°	1501	1466	1449
45°	1450	1409	1388
50°	1391	1348	1324
55°	1330	1283	1259
60°	1261	1211	1188
65°	1187	1131	1109
70°	1104	1045	1019
75°	1002	946	930
80°	868	821	826
85°	716	707	661

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1450 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.2	3.7
10°-20°	340.1	10.6
20°-30°	501.2	15.6
30°-40°	580.2	18.1
40°-50°	572.8	17.9
50°-60°	490.6	15.3
60°-70°	354.7	11.1
70°-80°	195.5	6.1
80°-90°	52.7	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°	961.4	30.0
0°-40°	1541.6	48.1
0°-60°	2605.1	81.2
0°-90°	3208.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3208.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1272	1272	1272	1272	1272	
5°	1268	1267	1266	1265	1265	120
15°	1211	1210	1207	1205	1204	341
25°	1099	1096	1087	1082	1079	506
35°	944	938	926	918	916	590
45°	762	752	740	733	730	587
55°	567	556	547	539	537	507
65°	373	364	355	350	348	370
75°	193	187	182	181	179	205
85°	46	46	46	43	43	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1272.3	1272.3	1272.3	1272.3	1272.3
2.5°	1272.3	1272.3	1271.1	1271.1	1271.1
5°	1267.5	1266.9	1266.3	1265.1	1265.1
7.5°	1258.4	1258.4	1256.6	1256.6	1255.4
10°	1247.0	1245.8	1244.0	1244.0	1242.8
12.5°	1230.7	1229.5	1227.1	1226.5	1224.7
15°	1210.8	1209.6	1206.6	1204.8	1203.6
17.5°	1188.0	1186.1	1182.5	1179.5	1177.1
20°	1162.1	1159.6	1154.2	1150.6	1147.6
22.5°	1132.5	1130.1	1122.3	1118.1	1115.1
25°	1099.4	1096.4	1087.4	1081.9	1078.9
27.5°	1063.9	1060.2	1050.0	1044.0	1041.0
30°	1027.1	1021.7	1011.4	1004.2	1001.8
32.5°	986.1	980.7	970.5	962.1	959.6
35°	944.0	938.0	925.9	918.1	915.7
37.5°	900.6	892.8	881.9	874.1	870.5
40°	854.8	847.0	834.9	826.5	824.7
42.5°	809.0	799.4	789.2	780.7	777.1
45°	762.1	751.8	740.4	733.1	729.5
47.5°	712.7	703.0	692.8	684.3	681.3
50°	664.5	654.2	644.0	636.1	632.5
52.5°	615.1	604.8	595.2	588.6	584.9
55°	566.9	556.0	547.0	539.2	536.7
57.5°	518.1	508.4	498.2	491.0	489.2
60°	468.7	460.2	450.0	443.4	441.6
62.5°	421.1	412.7	403.0	396.4	393.4
65°	372.9	364.5	355.4	350.0	348.2
67.5°	325.9	318.1	310.2	304.8	303.6
70°	280.7	272.9	265.7	260.8	259.0
72.5°	235.5	230.1	222.9	219.9	218.1
75°	192.8	186.7	181.9	181.3	178.9
77.5°	151.2	150.6	142.8	141.6	141.6
80°	112.0	110.2	106.0	104.8	106.6
82.5°	77.1	75.9	73.5	72.9	72.3
85°	46.4	46.4	45.8	42.8	42.8
87.5°	21.1	20.5	19.9	20.5	22.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)