

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: P601153

Luminaire Tested: 24D3X-LP-35-L835

Issue Date: 10/6/2023

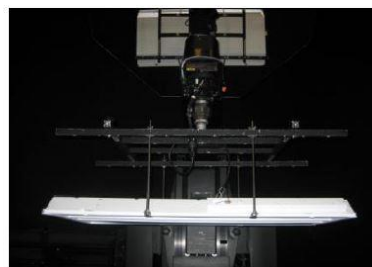
Test Information

Test Method: LM-79-2019
Report Number: P601153
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-L835
Description: 2x4 D3X-LP AT 3500LM 3500K 80CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

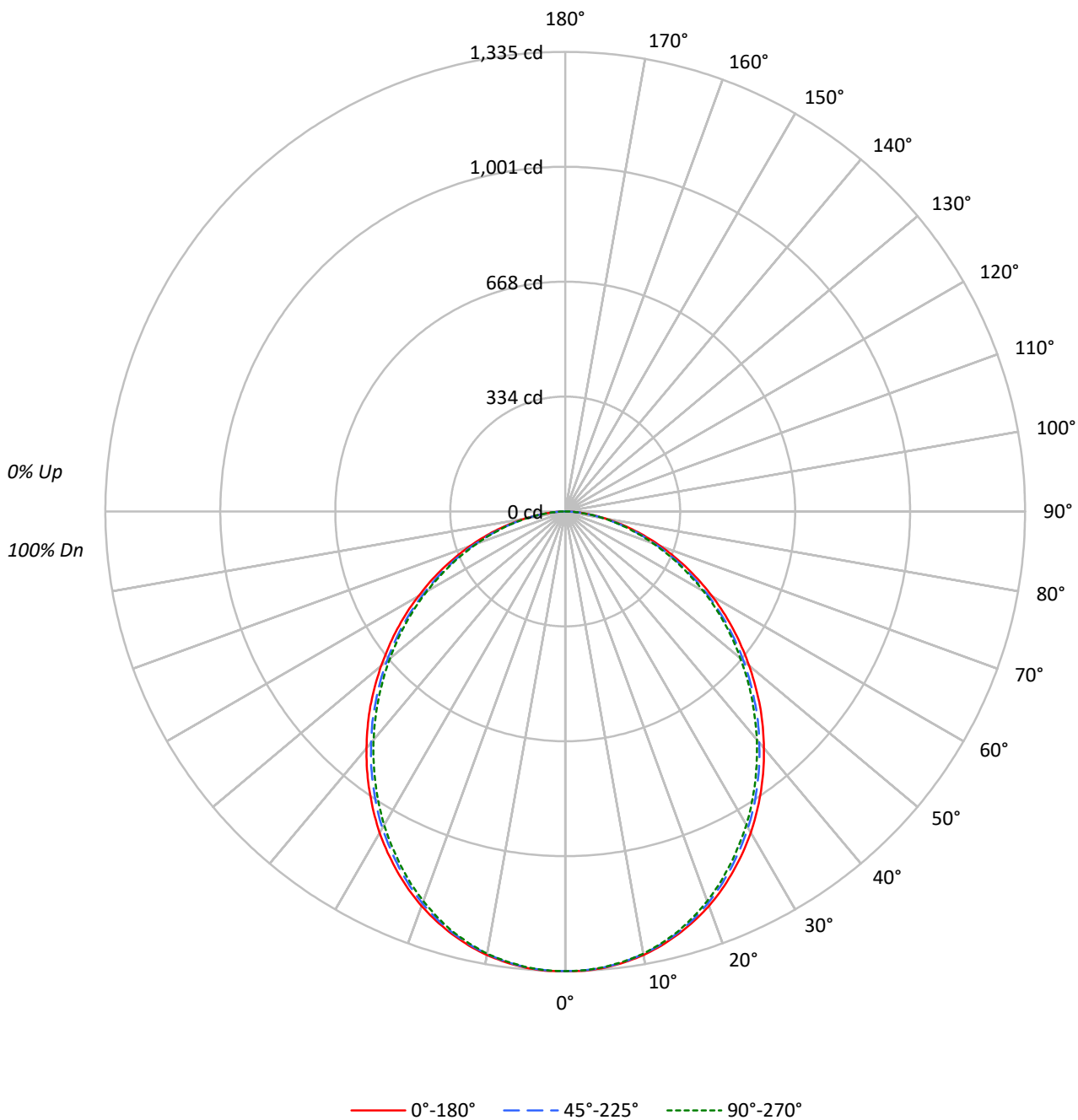
Lumens per Lamp: N/A
Luminaire Lumens: 3367.0 lumens
Efficiency: N/A
Efficacy: 133.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	1797	1797	1797
5°	1797	1795	1793
10°	1788	1784	1782
15°	1770	1764	1760
20°	1746	1735	1725
25°	1713	1694	1681
30°	1675	1649	1634
35°	1627	1596	1578
40°	1576	1539	1520
45°	1522	1479	1457
50°	1460	1415	1390
55°	1396	1347	1322
60°	1324	1271	1247
65°	1246	1188	1164
70°	1159	1097	1070
75°	1052	992	976
80°	911	862	867
85°	752	743	693

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1522 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.1	3.7
10°-20°	356.9	10.6
20°-30°	526.0	15.6
30°-40°	608.9	18.1
40°-50°	601.2	17.9
50°-60°	515.0	15.3
60°-70°	372.3	11.1
70°-80°	205.2	6.1
80°-90°	55.3	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°	1009.1	30.0
0°-40°	1618.0	48.1
0°-60°	2734.2	81.2
0°-90°	3367.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3367.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1335	1335	1335	1335	1335	
5°	1330	1330	1329	1328	1328	126
15°	1271	1270	1266	1264	1263	358
25°	1154	1151	1141	1136	1132	531
35°	991	984	972	964	961	619
45°	800	789	777	770	766	616
55°	595	584	574	566	563	532
65°	391	382	373	367	366	388
75°	202	196	191	190	188	215
85°	49	49	48	45	45	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1335.4	1335.4	1335.4	1335.4	1335.4
2.5°	1335.4	1335.4	1334.1	1334.1	1334.1
5°	1330.3	1329.7	1329.0	1327.8	1327.8
7.5°	1320.8	1320.8	1318.9	1318.9	1317.7
10°	1308.8	1307.5	1305.6	1305.6	1304.4
12.5°	1291.7	1290.5	1287.9	1287.3	1285.4
15°	1270.9	1269.6	1266.4	1264.5	1263.3
17.5°	1246.8	1244.9	1241.1	1238.0	1235.5
20°	1219.6	1217.1	1211.4	1207.6	1204.5
22.5°	1188.7	1186.1	1177.9	1173.5	1170.3
25°	1153.9	1150.7	1141.2	1135.6	1132.4
27.5°	1116.6	1112.8	1102.0	1095.7	1092.6
30°	1078.0	1072.3	1061.6	1054.0	1051.5
32.5°	1035.0	1029.3	1018.6	1009.7	1007.2
35°	990.8	984.4	971.8	963.6	961.0
37.5°	945.2	937.0	925.6	917.4	913.6
40°	897.2	889.0	876.3	867.5	865.6
42.5°	849.1	839.0	828.3	819.4	815.6
45°	799.8	789.1	777.1	769.5	765.7
47.5°	748.0	737.9	727.1	718.3	715.1
50°	697.4	686.6	675.9	667.7	663.9
52.5°	645.5	634.8	624.7	617.7	613.9
55°	595.0	583.6	574.1	565.9	563.4
57.5°	543.8	533.6	522.9	515.3	513.4
60°	491.9	483.1	472.3	465.4	463.5
62.5°	442.0	433.1	423.0	416.0	412.9
65°	391.4	382.5	373.0	367.3	365.5
67.5°	342.1	333.8	325.6	319.9	318.7
70°	294.6	286.4	278.8	273.8	271.9
72.5°	247.2	241.5	233.9	230.8	228.9
75°	202.3	196.0	190.9	190.3	187.8
77.5°	158.7	158.1	149.8	148.6	148.6
80°	117.6	115.7	111.3	110.0	111.9
82.5°	80.9	79.7	77.1	76.5	75.9
85°	48.7	48.7	48.1	44.9	44.9
87.5°	22.1	21.5	20.9	21.5	23.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)