

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:

Luminaire Tested: SQ4-FB-0U-075D-940-1D-UNV-STD-W-6

Issue Date: 8/1/2024

Test Information

Test Method: LM-79-2019
Report Number:
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2301-892-3)
Test Lab: INNOVATION CENTER
Issue Date: 8/1/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FB-0U-075D-940-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
DIRECT ONLY
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

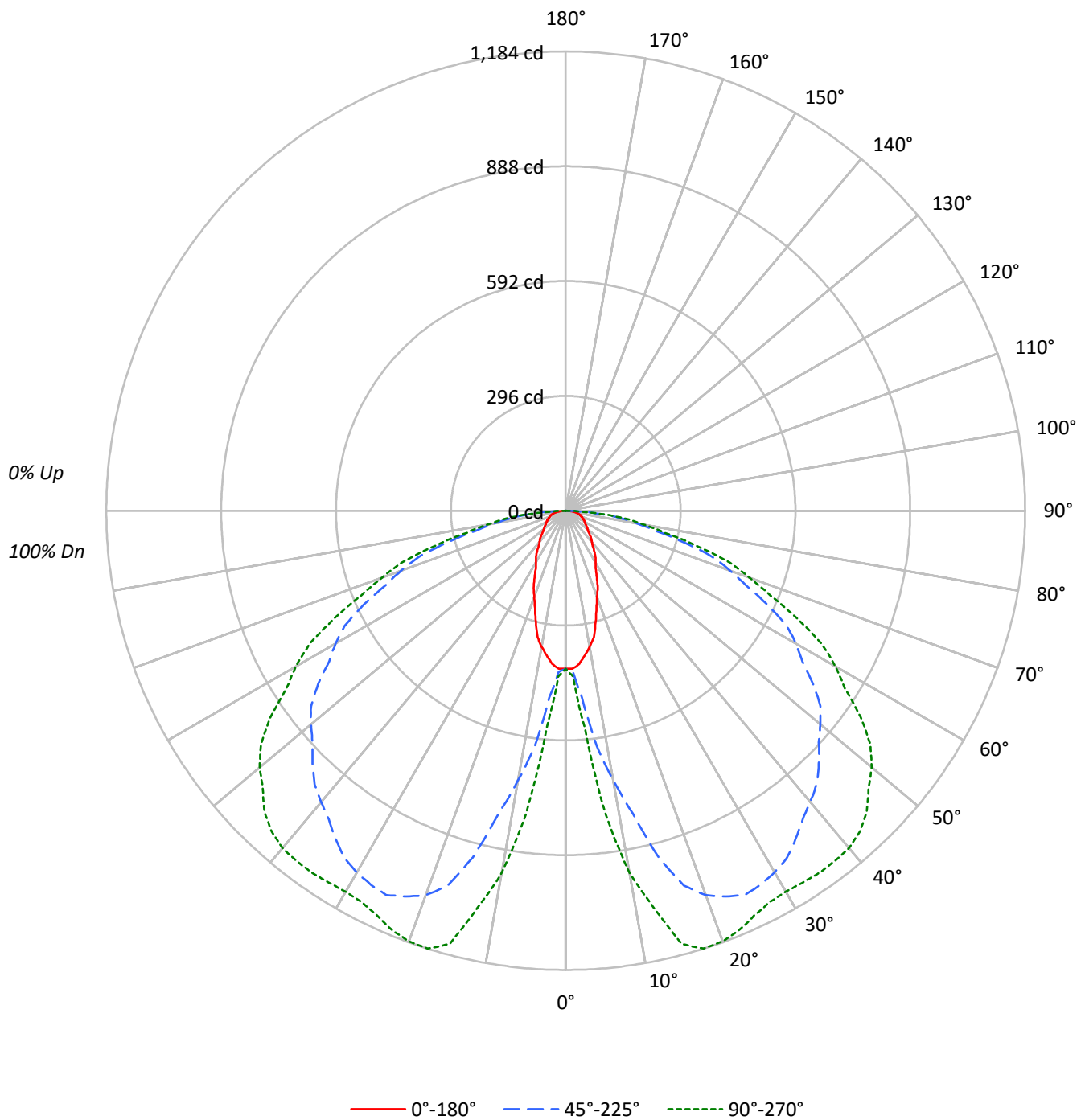
Lumens per Lamp: N/A
Luminaire Lumens: 3152.4 lumens
Efficiency: N/A
Efficacy: 78.0 lumens/watt
Spacing Criteria (0/90/45): 0.7 / 2.7 / 2.32
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Direct

Input Watts (W): 40.4
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				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	108	103	98	94	105	100	96	92	96	93	89		92	89	87		89
2	97	88	81	75	95	87	80	74	83	77	72		80	75	71		77
3	88	77	68	61	86	75	67	61	72	65	59		69	63	58		67
4	80	67	58	51	78	66	57	51	63	56	50		61	54	49		59
5	73	60	50	43	71	58	50	43	56	48	42		54	47	42		52
6	67	53	44	37	65	52	43	37	50	42	36		49	42	36		47
7	62	48	39	32	60	47	38	32	45	38	32		44	37	32		43
8	58	43	34	28	56	43	34	28	41	34	28		40	33	28		39
9	54	40	31	25	52	39	31	25	38	30	25		37	30	25		36
10	50	36	28	23	49	36	28	22	35	27	22		34	27	22		33

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2505	2505	2505
5°	2451	2980	3469
10°	2225	4409	5923
15°	1893	5892	7364
20°	1543	6906	7733
25°	1289	7418	7813
30°	1088	7647	8056
35°	964	7760	8556
40°	841	7872	9118
45°	764	8027	9548
50°	701	8197	9851
55°	675	8350	9958
60°	693	8427	9877
65°	725	8359	9588
70°	777	8103	9069
75°	872	7517	8311
80°	974	6494	7237
85°	925	5406	6196

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 52.5°

Luminance: 10000 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.4	1.7
10°-20°	232.7	7.4
20°-30°	407.8	12.9
30°-40°	525.1	16.7
40°-50°	586.3	18.6
50°-60°	562.2	17.8
60°-70°	447.4	14.2
70°-80°	263.6	8.4
80°-90°	73.9	2.3
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°	693.9	22.0
0°-40°	1219.0	38.7
0°-60°	2367.5	75.1
0°-90°	3152.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3152.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	407	407	407	407	407	
5°	397	425	483	545	562	36
15°	297	546	925	1119	1156	83
25°	190	620	1093	1149	1151	88
35°	128	581	1033	1096	1140	80
45°	88	456	923	1048	1098	68
55°	63	305	779	900	929	57
65°	50	199	574	648	659	49
75°	37	125	316	345	350	38
85°	13	34	77	86	88	15
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°
0°	407.3	407.3	407.3	407.3	407.3	407.3	407.3	407.3	407.3	407.3
2.5°	407.3	407.3	409.4	412.6	413.6	417.8	424.1	427.2	429.3	427.2
5°	396.9	402.1	419.1	444.0	468.9	496.4	531.8	548.8	559.3	561.9
7.5°	376.2	390.6	439.0	504.0	576.3	648.1	710.2	760.5	789.8	791.1
10°	356.3	381.1	455.8	555.3	654.9	757.0	842.2	894.6	936.5	948.3
12.5°	334.3	371.7	473.6	606.7	742.9	857.6	952.2	1009.8	1043.4	1047.8
15°	297.3	352.3	499.0	687.6	856.6	994.1	1084.5	1130.3	1151.3	1156.5
17.5°	263.0	335.0	521.3	751.0	951.2	1075.1	1143.7	1172.5	1183.0	1183.5
20°	235.8	318.3	531.8	795.0	999.4	1110.7	1160.5	1178.8	1184.0	1181.4
22.5°	215.8	300.5	538.1	824.4	1028.7	1124.3	1161.5	1170.4	1172.5	1169.9
25°	189.9	271.1	538.3	863.1	1058.3	1127.7	1147.4	1150.0	1152.6	1151.3
27.5°	166.9	238.4	530.5	888.8	1062.5	1111.7	1120.9	1127.4	1135.6	1137.4
30°	153.2	217.4	520.0	897.2	1058.3	1095.0	1104.1	1115.9	1130.3	1134.3
32.5°	142.8	197.5	504.3	898.2	1047.8	1075.1	1087.4	1109.6	1130.3	1136.4
35°	128.4	167.7	478.1	890.6	1024.2	1042.6	1068.8	1105.4	1132.9	1139.5
37.5°	114.2	146.2	442.4	875.2	993.3	1012.5	1055.7	1099.9	1130.6	1138.7
40°	104.8	133.6	415.2	860.5	969.2	991.5	1045.2	1093.7	1126.4	1135.6
42.5°	97.4	123.1	385.9	841.7	942.0	972.6	1032.6	1084.2	1114.9	1121.9
45°	87.8	107.4	339.2	806.8	899.8	945.7	1011.1	1060.9	1089.7	1097.6
47.5°	78.6	96.4	290.5	767.0	856.8	912.9	980.0	1027.1	1053.6	1058.8
50°	73.3	89.1	258.0	738.7	826.5	886.7	954.8	1002.0	1024.2	1029.5
52.5°	69.2	82.8	227.6	706.2	795.0	859.5	924.4	967.4	987.6	989.7
55°	62.9	74.7	187.3	656.2	745.3	812.1	874.9	909.0	923.4	928.6
57.5°	59.5	68.6	155.6	602.0	689.2	756.3	813.4	839.8	851.3	853.2
60°	56.3	65.5	138.8	563.2	653.6	716.4	766.2	788.5	799.0	802.9
62.5°	53.2	63.4	126.3	523.4	611.7	672.4	715.9	735.0	743.4	744.2
65°	49.8	60.2	111.3	462.3	546.2	602.5	636.5	652.3	656.2	658.8
67.5°	46.4	57.1	100.6	400.8	478.6	525.2	550.4	564.0	564.8	570.3
70°	43.2	55.0	94.3	358.9	428.3	472.8	493.8	504.3	503.0	504.3
72.5°	41.1	51.9	90.1	315.9	380.1	415.2	434.1	441.4	442.2	442.4
75°	36.7	45.8	83.8	250.2	301.2	331.4	345.8	344.5	348.4	349.7
77.5°	31.7	39.6	68.9	184.4	225.8	245.7	257.2	260.9	259.6	259.9
80°	27.5	35.4	56.3	141.5	175.5	191.2	201.7	204.3	203.0	204.3
82.5°	22.3	29.1	43.7	104.8	131.5	144.1	151.4	151.9	152.7	155.1
85°	13.1	17.0	26.2	57.6	73.3	79.9	85.1	86.4	87.8	87.8
87.5°	5.2	7.3	13.6	24.1	30.4	32.5	32.5	30.4	32.5	29.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)