

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-927-1D-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-927-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
DIRECT ONLY
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

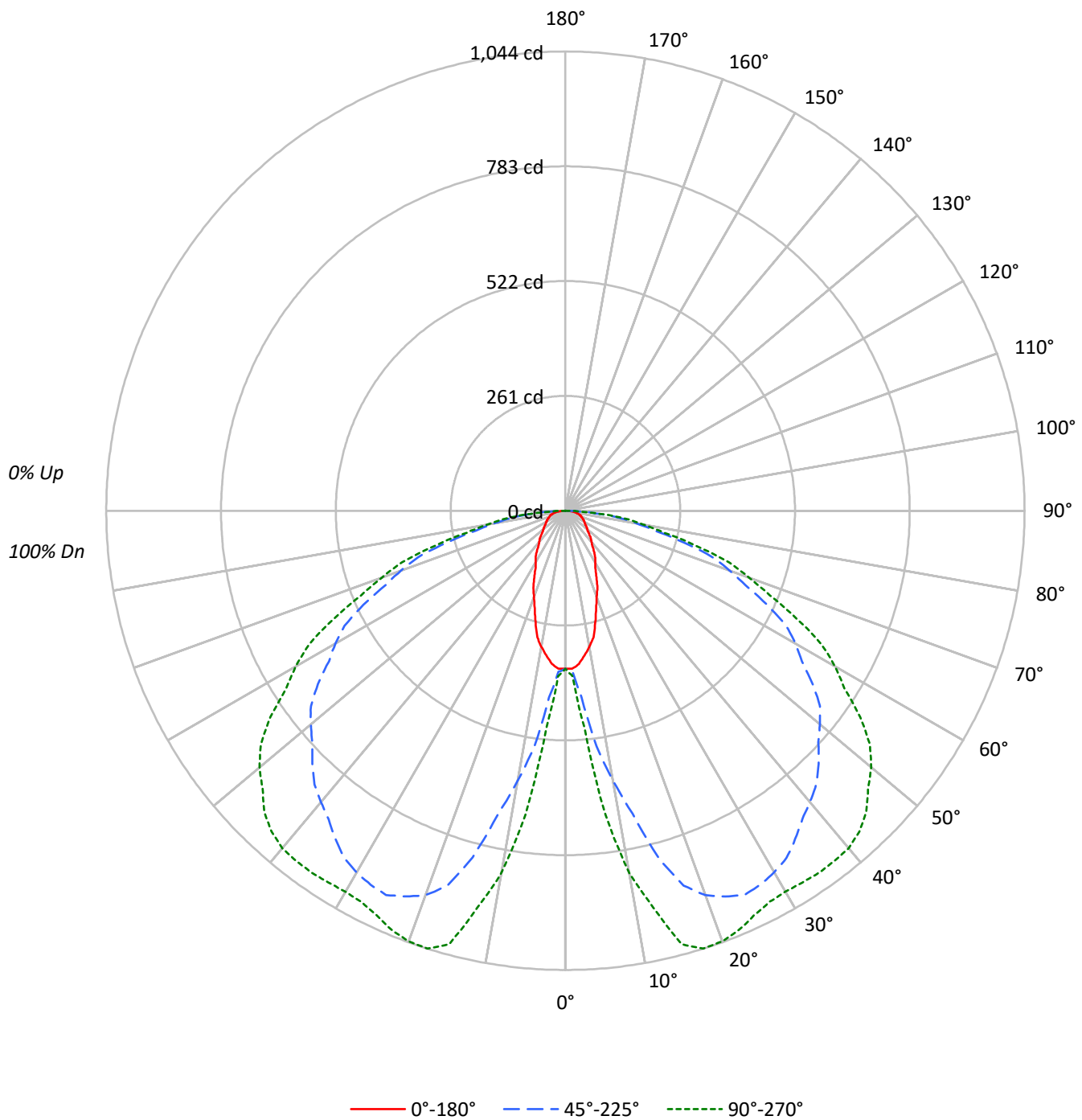
Lumens per Lamp: N/A
Luminaire Lumens: 2779.9 lumens
Efficiency: N/A
Efficacy: 68.8 lumens/watt
Spacing Criteria (0/90/45): 0.7 / 2.7 / 2.32
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Direct

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°	2209	2209	2209
5°	2161	2628	3059
10°	1962	3888	5223
15°	1670	5196	6494
20°	1361	6090	6819
25°	1137	6541	6890
30°	960	6743	7104
35°	850	6843	7545
40°	742	6941	8041
45°	673	7078	8419
50°	619	7228	8687
55°	594	7363	8782
60°	611	7431	8710
65°	639	7371	8456
70°	685	7146	7997
75°	768	6628	7329
80°	861	5728	6383
85°	812	4771	5462

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 52.5°

Luminance: 8818 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.1	1.7
10°-20°	205.2	7.4
20°-30°	359.6	12.9
30°-40°	463.0	16.7
40°-50°	517.0	18.6
50°-60°	495.8	17.8
60°-70°	394.5	14.2
70°-80°	232.4	8.4
80°-90°	65.2	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°	611.9	22.0
0°-40°	1075.0	38.7
0°-60°	2087.7	75.1
0°-90°	2779.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2779.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	359	359	359	359	359	
5°	350	375	426	480	496	32
15°	262	482	816	987	1020	73
25°	168	546	964	1014	1015	77
35°	113	513	911	967	1005	71
45°	77	402	814	925	968	60
55°	55	269	687	794	819	51
65°	44	176	506	572	581	44
75°	32	111	279	304	308	34
85°	12	30	68	76	77	13
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°
0°	359.2	359.2	359.2	359.2	359.2	359.2	359.2	359.2	359.2	359.2
2.5°	359.2	359.2	361.1	363.8	364.7	368.4	374.0	376.8	378.6	376.8
5°	350.0	354.6	369.6	391.5	413.5	437.7	468.9	483.9	493.2	495.5
7.5°	331.7	344.4	387.2	444.4	508.2	571.5	626.2	670.6	696.5	697.6
10°	314.2	336.1	401.9	489.7	577.5	667.6	742.7	788.9	825.8	836.2
12.5°	294.8	327.8	417.6	535.0	655.1	756.3	839.7	890.5	920.1	924.0
15°	262.2	310.7	440.1	606.4	755.4	876.6	956.3	996.8	1015.2	1019.9
17.5°	231.9	295.4	459.7	662.3	838.8	948.0	1008.5	1034.0	1043.2	1043.7
20°	207.9	280.7	468.9	701.1	881.3	979.4	1023.3	1039.5	1044.1	1041.8
22.5°	190.3	265.0	474.5	727.0	907.1	991.4	1024.3	1032.1	1034.0	1031.6
25°	167.5	239.1	474.7	761.1	933.2	994.5	1011.8	1014.1	1016.4	1015.2
27.5°	147.1	210.2	467.8	783.8	936.9	980.4	988.4	994.2	1001.4	1003.0
30°	135.1	191.7	458.5	791.2	933.2	965.6	973.7	984.1	996.8	1000.2
32.5°	125.9	174.2	444.7	792.1	924.0	948.0	958.9	978.5	996.8	1002.1
35°	113.2	147.8	421.6	785.4	903.2	919.4	942.5	974.8	999.1	1004.8
37.5°	100.7	128.9	390.2	771.8	875.9	892.8	930.9	970.0	997.0	1004.2
40°	92.4	117.8	366.1	758.8	854.7	874.3	921.7	964.4	993.3	1001.4
42.5°	85.9	108.6	340.3	742.2	830.7	857.7	910.6	956.1	983.1	989.4
45°	77.4	94.7	299.1	711.5	793.5	833.9	891.7	935.5	961.0	967.9
47.5°	69.3	85.0	256.2	676.4	755.6	805.0	864.2	905.7	929.1	933.7
50°	64.7	78.5	227.5	651.4	728.8	781.9	842.0	883.6	903.2	907.8
52.5°	61.0	73.0	200.7	622.8	701.1	757.9	815.2	853.1	870.9	872.7
55°	55.4	65.8	165.2	578.7	657.2	716.1	771.5	801.6	814.3	818.9
57.5°	52.4	60.5	137.2	530.8	607.8	666.9	717.3	740.6	750.7	752.4
60°	49.7	57.7	122.4	496.6	576.3	631.8	675.7	695.3	704.5	708.0
62.5°	46.9	55.9	111.3	461.5	539.4	593.0	631.3	648.2	655.6	656.3
65°	43.9	53.1	98.2	407.7	481.6	531.3	561.3	575.2	578.7	581.0
67.5°	40.9	50.4	88.7	353.4	422.0	463.2	485.3	497.3	498.0	502.9
70°	38.1	48.5	83.2	316.5	377.7	417.0	435.4	444.7	443.5	444.7
72.5°	36.3	45.7	79.5	278.6	335.2	366.1	382.8	389.2	389.9	390.2
75°	32.3	40.4	73.9	220.6	265.6	292.2	304.9	303.8	307.2	308.4
77.5°	28.0	34.9	60.8	162.6	199.1	216.7	226.8	230.1	228.9	229.2
80°	24.3	31.2	49.7	124.7	154.8	168.6	177.9	180.2	179.0	180.2
82.5°	19.6	25.6	38.6	92.4	116.0	127.0	133.5	134.0	134.7	136.8
85°	11.5	15.0	23.1	50.8	64.7	70.5	75.1	76.2	77.4	77.4
87.5°	4.6	6.5	12.0	21.3	26.8	28.6	28.6	26.8	28.6	25.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)