

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

(formerly Eaton)

Brand: CORELITE

Report Number: P564055

Luminaire Tested: **SQ4-PR1-075U-050D-930-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564055
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PR1-075U-050D-930-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

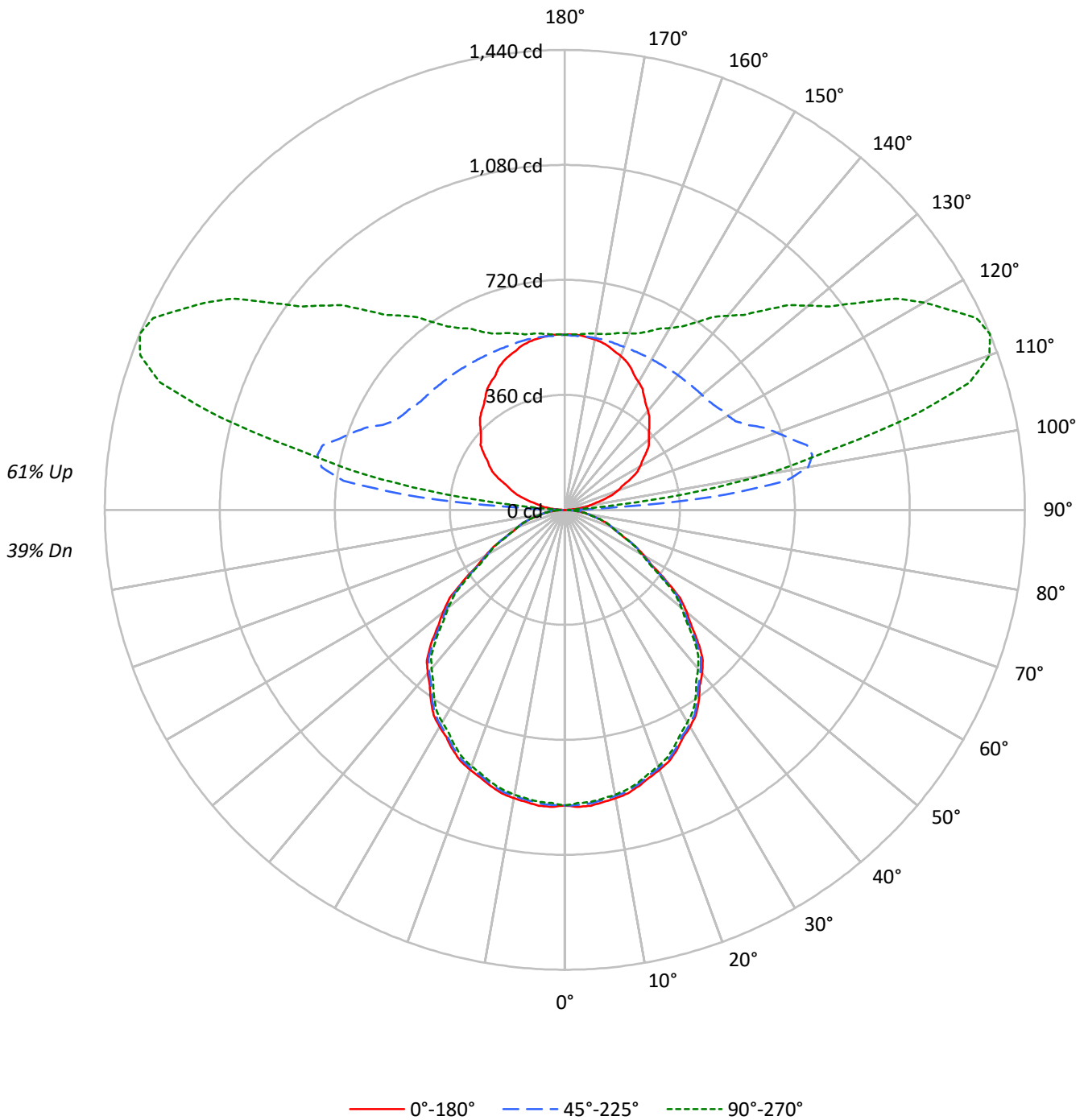
Lumens per Lamp: N/A
Luminaire Lumens: 5887.9 lumens
Efficiency: N/A
Efficacy: 108.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 54.3
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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	105	105	105	105	95	95	95	95	77	77	77	61	61	61	46	46	46	39
1	96	91	88	84	87	83	80	77	68	66	64	54	53	51	41	40	39	34
2	87	80	74	69	79	73	68	64	60	56	53	48	45	43	37	35	34	28
3	80	71	63	58	72	64	58	53	53	49	45	42	39	37	33	31	29	24
4	73	63	55	49	66	57	51	45	47	42	38	38	34	32	29	27	25	21
5	67	56	48	42	61	51	44	39	42	37	33	34	30	27	26	24	22	18
6	62	50	42	36	56	46	39	34	38	33	29	31	27	24	24	21	19	16
7	57	45	37	32	52	41	35	30	34	29	25	28	24	21	22	19	17	14
8	53	41	33	28	48	38	31	26	31	26	23	26	22	19	20	17	15	13
9	49	37	30	25	45	34	28	23	29	24	20	23	20	17	19	16	14	12
10	46	34	27	22	42	31	25	21	26	22	18	22	18	15	17	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5691	5691	5691
5°	5742	5698	5669
10°	5724	5684	5654
15°	5699	5664	5633
20°	5670	5634	5592
25°	5630	5592	5528
30°	5570	5530	5451
35°	5487	5439	5362
40°	5362	5305	5209
45°	5143	5054	4949
50°	4759	4644	4553
55°	4153	4059	3974
60°	3500	3470	3401
65°	3027	3039	3016
70°	2780	2795	2795
75°	2671	2671	2690
80°	2511	2540	2511
85°	2025	2251	2251



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.5	1.5
10°-20°	250.3	4.3
20°-30°	377.6	6.4
30°-40°	449.9	7.6
40°-50°	443.6	7.5
50°-60°	339.0	5.8
60°-70°	209.8	3.6
70°-80°	119.2	2.0
80°-90°	37.6	0.6
90°-100°	258.7	4.4
100°-110°	711.8	12.1
110°-120°	734.7	12.5
120°-130°	588.6	10.0
130°-140°	462.3	7.9
140°-150°	354.3	6.0
150°-160°	254.7	4.3
160°-170°	155.8	2.6
170°-180°	52.5	0.9
0°-30°	715.4	12.2
0°-40°	1165.3	19.8
0°-60°	1947.9	33.1
0°-90°	2314.4	39.3
90°-120°	1705.2	29.0
90°-150°	3110.5	52.8
90°-180°	3573.0	60.7
0°-180°	5887.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	925	925	925	925	925	
5°	930	920	923	920	918	88
15°	895	886	889	886	885	253
25°	830	820	824	815	814	382
35°	731	722	724	715	714	456
45°	591	584	581	571	569	453
55°	387	381	378	372	371	347
65°	208	206	209	207	207	211
75°	112	112	112	113	113	119
85°	29	30	32	32	32	33
90°	1	5	8	10	10	4
95°	38	141	458	196	125	41
105°	127	196	784	1194	1115	134
115°	225	274	629	1253	1422	222
125°	310	354	571	965	1131	277
135°	375	416	554	781	884	289
145°	433	463	546	665	717	272
155°	490	506	543	598	615	225
165°	530	537	545	567	571	149
175°	548	550	546	553	552	52
180°	548	548	548	548	548	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	925.3	925.3	925.3	925.3	925.3
2.5°	931.0	922.9	925.3	923.2	918.9
5°	930.0	919.9	922.9	919.6	918.1
7.5°	922.9	912.9	915.9	912.6	911.7
10°	916.5	907.1	910.1	906.9	905.3
12.5°	909.5	899.5	903.1	899.2	897.7
15°	895.0	885.6	889.4	886.2	884.6
17.5°	879.0	869.1	872.8	869.1	867.1
20°	866.3	856.9	860.7	855.1	854.3
22.5°	852.3	842.9	846.7	839.2	839.0
25°	829.6	819.5	824.0	815.3	814.5
27.5°	802.7	793.3	797.1	788.2	787.2
30°	784.2	774.8	778.6	769.0	767.5
32.5°	763.2	754.4	757.6	748.0	747.1
35°	730.8	722.2	724.4	714.8	714.1
37.5°	694.0	686.2	687.4	676.9	676.1
40°	667.8	660.0	660.7	649.5	648.7
42.5°	639.2	631.4	630.7	619.5	618.7
45°	591.3	583.5	581.0	570.6	569.0
47.5°	536.8	529.0	524.2	515.8	514.7
50°	497.3	489.5	485.3	478.1	475.8
52.5°	454.6	446.8	443.3	436.7	434.3
55°	387.3	381.1	378.5	372.1	370.6
57.5°	323.4	319.2	318.5	312.2	311.6
60°	284.5	282.2	282.1	276.5	276.5
62.5°	251.4	249.6	250.9	247.2	246.6
65°	208.0	206.4	208.8	207.2	207.2
67.5°	173.7	173.7	175.2	174.5	174.5
70°	154.6	154.6	155.4	155.4	155.4
72.5°	137.4	136.8	138.8	138.8	138.2
75°	112.4	112.4	112.4	113.2	113.2
77.5°	87.5	87.7	88.3	88.1	87.5
80°	70.9	71.7	71.7	70.9	70.9
82.5°	54.4	55.1	55.1	55.0	54.4
85°	28.7	30.2	31.9	31.9	31.9
87.5°	8.5	11.7	14.4	14.8	14.2
90°	1.2	4.6	8.2	10.5	10.5
92.5°	16.1	68.8	119.3	45.8	37.6
95°	38.5	141.2	457.5	195.6	124.9
97.5°	62.8	156.6	698.2	537.9	379.5
100°	80.5	166.1	773.8	781.0	637.2
102.5°	97.3	177.4	793.4	969.0	837.0
105°	127.2	195.7	784.3	1194.5	1114.6
107.5°	155.7	218.2	739.7	1304.9	1328.6
110°	176.2	233.3	706.1	1332.4	1414.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	194.9	250.1	672.5	1314.7	1439.7
115°	225.2	274.3	629.1	1252.6	1421.5
117.5°	254.2	299.4	601.5	1165.6	1356.6
120°	271.9	315.3	589.4	1100.4	1297.8
122.5°	287.8	331.2	581.0	1043.2	1230.6
125°	310.4	353.8	570.7	965.4	1130.9
127.5°	331.9	373.2	563.9	900.6	1045.7
130°	343.1	385.3	560.2	862.0	994.4
132.5°	356.2	398.4	557.4	828.1	947.7
135°	374.6	415.7	554.4	780.8	883.5
137.5°	391.9	430.0	551.8	742.6	827.2
140°	405.0	440.4	550.9	717.2	793.6
142.5°	416.2	448.8	549.0	694.5	760.0
145°	433.0	462.7	546.2	665.2	716.6
147.5°	451.0	476.5	544.8	639.3	680.4
150°	462.2	485.0	543.9	625.1	657.1
152.5°	472.4	493.4	542.9	612.9	639.3
155°	490.2	506.2	542.7	597.9	615.1
157.5°	503.0	516.0	542.7	585.7	597.6
160°	512.4	522.6	542.7	579.1	588.2
162.5°	519.8	528.3	543.6	573.4	580.7
165°	529.9	536.7	545.0	567.3	570.7
167.5°	536.9	542.1	546.2	562.1	563.0
170°	541.5	545.0	546.2	560.2	560.2
172.5°	545.3	546.9	546.2	557.4	556.5
175°	548.5	549.7	546.2	553.2	552.0
177.5°	549.5	549.5	545.7	551.3	549.5
180°	548.5	548.5	548.5	548.5	548.5

(END OF REPORT)