

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: P564727

Luminaire Tested: **SQ4-PW1-075U-050D-930-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564727
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, G2-2106-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PW1-075U-050D-930-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

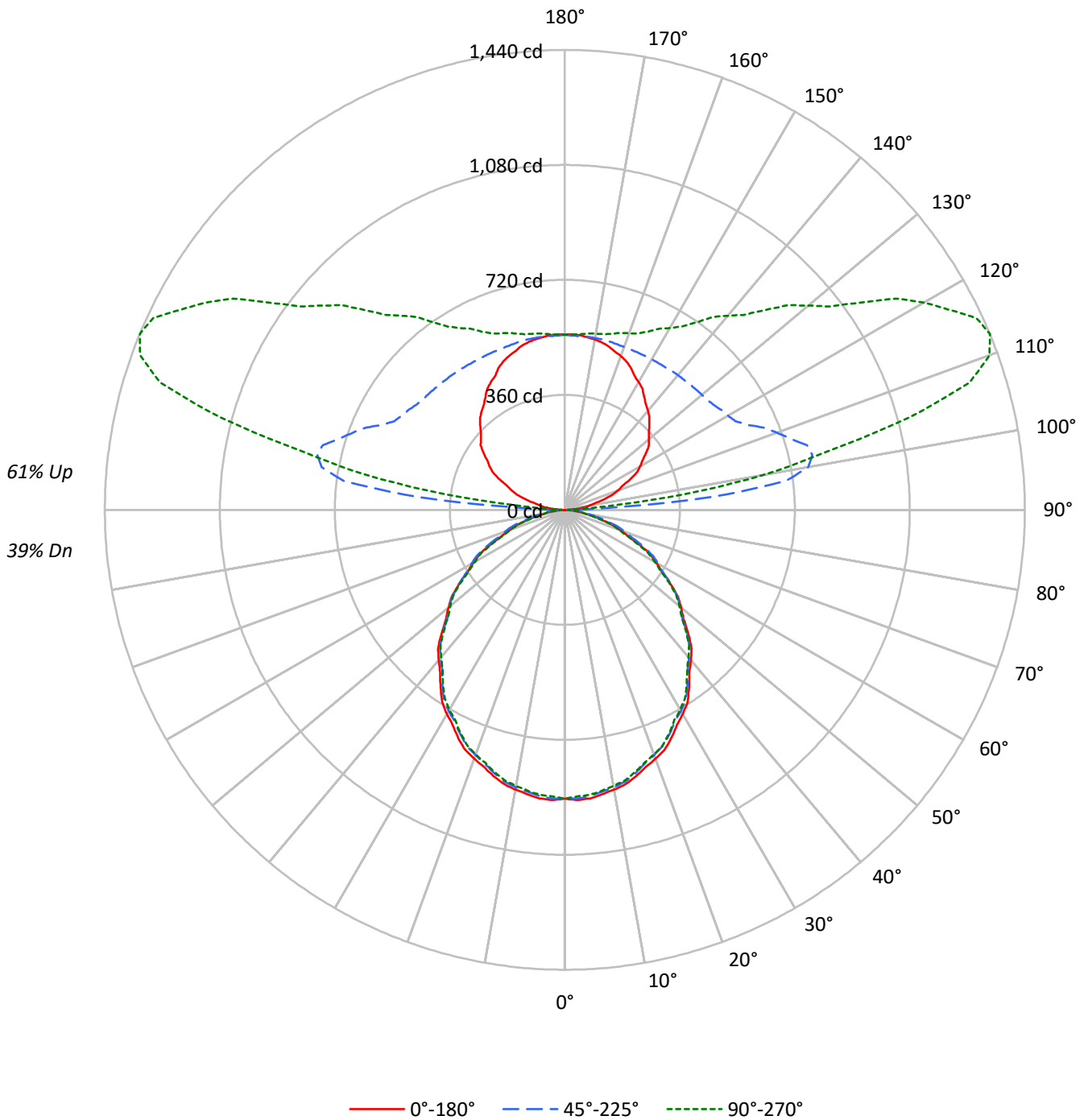
Lumens per Lamp: N/A
Luminaire Lumens: 5876.2 lumens
Efficiency: N/A
Efficacy: 108.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

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	95	91	87	84	87	83	80	77	68	66	64	54	52	51	41	40	39	33
2	87	80	74	69	79	73	68	63	59	56	53	47	45	43	36	34	33	28
3	79	70	63	57	72	64	58	53	52	48	44	42	39	36	32	30	28	24
4	73	62	54	48	66	57	50	45	47	42	38	37	34	31	29	26	24	20
5	67	55	47	41	60	50	44	38	42	36	32	33	30	27	26	23	21	18
6	61	49	41	36	55	45	38	33	37	32	28	30	26	23	23	21	19	16
7	57	45	37	31	51	41	34	29	34	29	25	27	24	21	21	19	17	14
8	52	40	33	28	48	37	30	26	31	26	22	25	21	18	20	17	15	12
9	49	37	29	24	44	34	27	23	28	23	20	23	19	16	18	15	13	11
10	45	34	27	22	41	31	25	20	26	21	18	21	18	15	17	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5563	5563	5563
5°	5599	5556	5531
10°	5555	5510	5480
15°	5496	5435	5415
20°	5430	5347	5337
25°	5355	5257	5241
30°	5242	5162	5128
35°	5092	5020	4991
40°	4933	4857	4838
45°	4742	4679	4658
50°	4545	4507	4476
55°	4333	4333	4265
60°	4068	4147	4000
65°	3723	3909	3630
70°	3282	3597	3196
75°	2802	3220	2728
80°	2175	2710	2203
85°	1404	2082	1856



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.2	1.4
10°-20°	240.5	4.1
20°-30°	356.7	6.1
30°-40°	417.4	7.1
40°-50°	415.5	7.1
50°-60°	358.8	6.1
60°-70°	258.3	4.4
70°-80°	135.4	2.3
80°-90°	35.0	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	2.7
170°-180°	52.5	0.9
0°-30°	682.4	11.6
0°-40°	1099.7	18.7
0°-60°	1874.1	31.9
0°-90°	2302.8	39.2
90°-120°	1705.2	29.0
90°-150°	3110.5	52.9
90°-180°	3573.0	60.8
0°-180°	5876.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	904	904	904	904	904	
5°	907	897	900	897	896	86
15°	863	852	854	852	850	243
25°	789	776	775	770	772	363
35°	678	669	669	662	665	424
45°	545	540	538	536	536	421
55°	404	403	404	398	398	361
65°	256	264	269	258	249	254
75°	118	129	136	126	115	126
85°	20	26	30	28	26	26
90°	1	5	8	10	10	3
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°	904.5	904.5	904.5	904.5	904.5
2.5°	909.6	902.2	904.5	902.5	898.2
5°	906.9	896.8	899.8	897.3	895.8
7.5°	897.7	888.3	890.5	887.9	887.0
10°	889.4	880.0	882.2	879.0	877.4
12.5°	879.8	869.9	872.0	868.8	867.9
15°	863.1	852.2	853.5	851.9	850.3
17.5°	843.6	832.6	832.8	830.3	829.9
20°	829.6	817.9	816.9	813.7	815.3
22.5°	814.3	802.0	800.9	796.5	798.7
25°	789.0	775.7	774.6	769.9	772.2
27.5°	759.7	746.6	746.6	739.9	742.4
30°	738.0	725.5	726.8	718.9	722.0
32.5°	715.0	703.8	704.5	696.6	699.7
35°	678.2	668.9	668.6	662.3	664.7
37.5°	640.6	632.3	631.0	627.4	628.0
40°	614.4	607.4	604.9	602.5	602.5
42.5°	587.0	580.6	578.1	576.3	575.7
45°	545.1	540.4	537.9	536.3	535.5
47.5°	503.7	499.3	497.1	496.0	495.2
50°	475.0	471.9	471.0	468.6	467.8
52.5°	446.3	444.4	443.6	440.5	439.8
55°	404.1	403.3	404.1	398.5	397.7
57.5°	360.1	361.3	363.9	356.4	354.5
60°	330.7	333.9	337.1	328.3	325.2
62.5°	300.8	305.8	310.3	300.2	295.8
65°	255.8	263.6	268.6	258.0	249.4
67.5°	212.5	222.1	228.1	216.7	207.0
70°	182.5	193.4	200.0	188.6	177.7
72.5°	156.4	168.5	173.9	163.1	152.2
75°	117.9	128.9	135.5	126.4	114.8
77.5°	83.7	94.0	99.5	91.6	81.9
80°	61.4	72.3	76.5	70.0	62.2
82.5°	43.5	52.6	55.5	51.5	46.2
85°	19.9	26.2	29.5	27.9	26.3
87.5°	5.3	10.4	13.7	14.2	14.9
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)