

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: P564535

Luminaire Tested: **SQ4-PW1-025U-050D-930-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564535
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-PW1-025U-050D-930-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

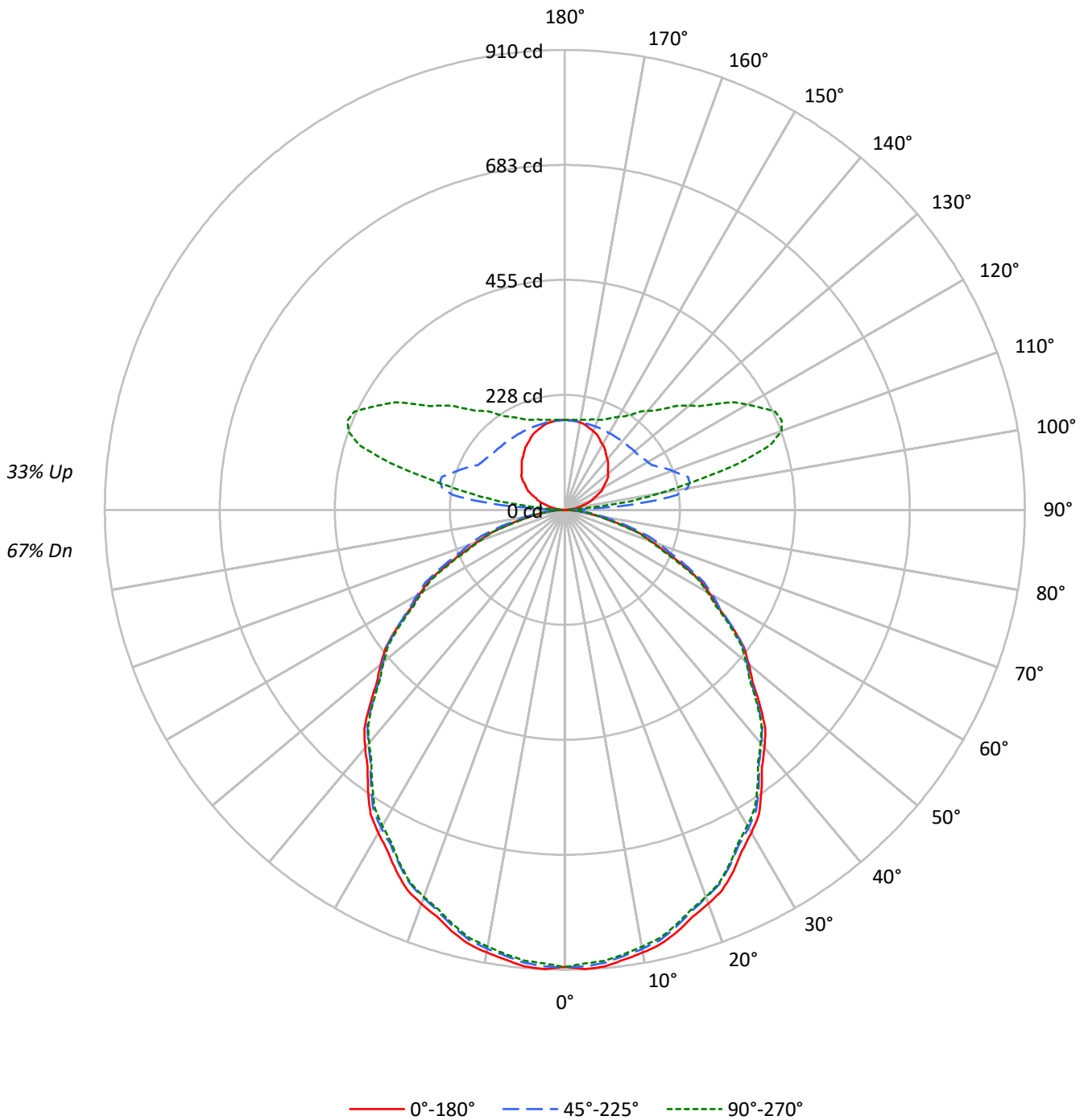
Lumens per Lamp: N/A
Luminaire Lumens: 3455.3 lumens
Efficiency: N/A
Efficacy: 99.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 34.9
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	111	111	111	111	105	105	105	105	93	93	93	82	82	82	71	71	71	67
1	102	97	93	90	96	92	88	85	82	79	77	72	70	68	63	62	61	56
2	93	85	79	74	87	80	75	70	72	67	64	63	60	57	56	53	51	47
3	85	75	67	61	79	71	64	59	63	58	54	56	52	49	50	46	44	40
4	78	66	58	52	73	63	56	50	56	50	46	50	45	42	44	41	38	35
5	71	59	51	45	67	56	49	43	50	44	40	45	40	36	40	36	33	30
6	66	53	45	39	62	51	43	38	46	39	35	41	36	32	36	32	29	26
7	61	48	40	34	57	46	38	33	41	35	31	37	32	28	33	29	26	23
8	57	44	36	30	53	42	35	29	38	32	27	34	29	25	31	26	23	21
9	53	40	32	27	50	38	31	26	35	29	25	31	26	23	28	24	21	19
10	49	37	30	25	47	35	28	24	32	26	22	29	24	21	26	22	19	17

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	2.5
10°-20°	240.5	7.0
20°-30°	356.7	10.3
30°-40°	417.4	12.1
40°-50°	415.5	12.0
50°-60°	358.8	10.4
60°-70°	258.3	7.5
70°-80°	135.4	3.9
80°-90°	34.5	1.0
90°-100°	86.7	2.5
100°-110°	227.9	6.6
110°-120°	236.3	6.8
120°-130°	189.6	5.5
130°-140°	148.7	4.3
140°-150°	114.2	3.3
150°-160°	82.2	2.4
160°-170°	50.3	1.5
170°-180°	17.0	0.5
0°-30°	682.4	19.7
0°-40°	1099.7	31.8
0°-60°	1874.1	54.2
0°-90°	2302.3	66.6
90°-120°	551.0	15.9
90°-150°	1003.4	29.0
90°-180°	1153.0	33.4
0°-180°	3455.3	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	3	9	5	5	2
95°	11	45	149	77	52	13
105°	41	62	252	382	357	43
115°	73	89	202	403	460	72
125°	102	114	184	310	366	90
135°	121	133	178	250	284	94
145°	140	149	176	214	230	88
155°	158	163	176	193	198	73
165°	171	173	176	182	185	48
175°	178	178	177	179	179	17
180°	178	178	178	178	178	

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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	10.1	13.9	13.0	13.7
90°	1.1	3.4	9.1	4.6	4.6
92.5°	4.8	23.1	51.1	22.6	14.6
95°	11.4	44.9	149.4	77.0	52.5
97.5°	19.8	49.3	223.5	177.7	130.9
100°	26.2	53.0	246.3	249.6	193.8
102.5°	31.7	56.7	252.7	310.9	263.2
105°	41.0	62.2	252.0	382.5	356.9
107.5°	50.6	70.3	237.6	419.8	426.0
110°	57.0	74.9	225.8	429.3	456.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	63.4	80.3	214.8	423.3	464.3
115°	73.0	88.6	201.8	402.7	459.5
117.5°	82.3	96.6	192.9	374.1	437.2
120°	87.8	101.2	189.3	354.9	416.2
122.5°	93.3	106.7	186.5	335.7	396.1
125°	101.5	113.7	183.6	310.3	366.0
127.5°	108.1	120.6	181.1	289.8	336.8
130°	111.7	125.1	180.2	276.9	320.4
132.5°	115.4	128.8	179.2	265.9	304.9
135°	120.9	133.1	177.9	250.5	283.9
137.5°	126.6	138.6	177.7	238.9	266.4
140°	131.1	142.3	176.7	229.8	255.4
142.5°	134.8	145.0	176.7	223.3	245.4
145°	140.3	149.2	175.6	213.6	230.3
147.5°	145.7	154.4	175.6	205.6	219.4
150°	149.4	157.2	175.6	200.9	212.1
152.5°	153.0	159.0	175.6	197.2	205.7
155°	158.5	163.0	175.6	192.8	198.4
157.5°	162.6	166.8	175.6	188.9	192.9
160°	165.3	168.7	175.6	187.1	189.3
162.5°	168.1	170.5	175.6	185.2	187.5
165°	171.0	173.3	175.6	182.5	184.7
167.5°	173.8	174.9	176.7	181.3	182.2
170°	175.6	176.7	176.7	181.3	181.3
172.5°	176.5	176.7	176.7	180.4	179.5
175°	177.9	177.9	176.7	179.0	179.0
177.5°	177.9	177.9	177.0	178.8	177.9
180°	177.9	177.9	177.9	177.9	177.9

(END OF REPORT)