

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: P563871

Luminaire Tested: **SQ4-PR1-025U-050D-940-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563871
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-PR1-025U-050D-940-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

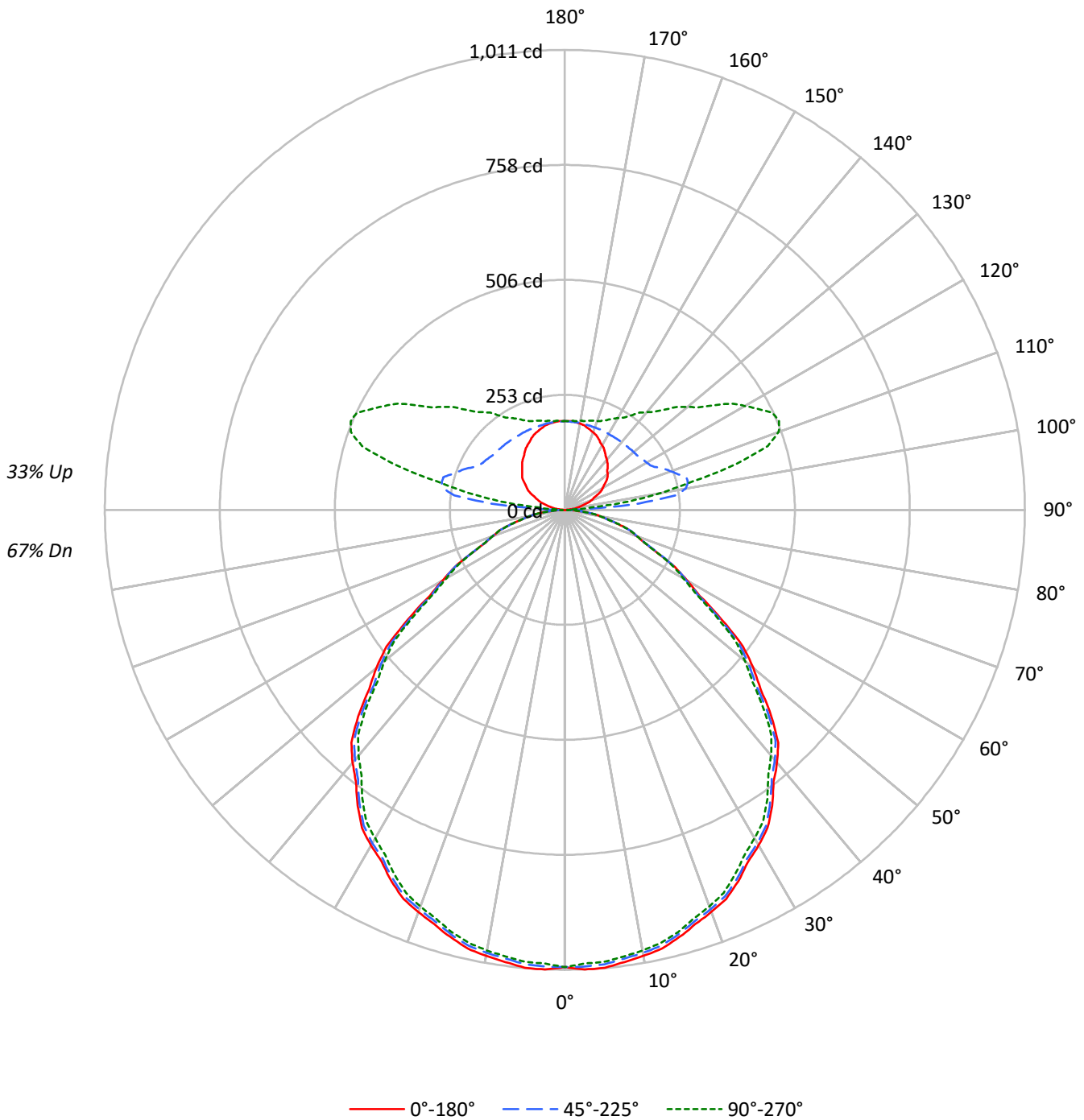
Lumens per Lamp: N/A
Luminaire Lumens: 3779.0 lumens
Efficiency: N/A
Efficacy: 108.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

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	81	81	81	71	71	71	67
1	102	98	94	90	96	92	89	86	82	79	77	72	70	69	64	62	61	57
2	93	86	80	74	87	81	76	71	72	68	64	64	61	58	56	54	52	48
3	85	76	68	62	80	72	65	60	64	59	55	57	53	50	50	47	45	41
4	78	67	59	53	73	64	57	51	57	51	47	51	46	43	45	42	39	36
5	72	60	52	46	68	57	50	44	51	45	41	46	41	37	41	37	34	31
6	66	54	46	40	62	51	44	39	46	40	36	42	37	33	37	33	30	27
7	61	49	41	35	58	47	39	34	42	36	32	38	33	29	34	30	27	24
8	57	45	37	31	54	43	35	30	39	33	28	35	30	26	31	27	24	22
9	53	41	33	28	50	39	32	27	35	30	25	32	27	24	29	25	22	20
10	50	38	30	25	47	36	29	25	33	27	23	30	25	21	27	23	20	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6183	6183	6183
5°	6239	6190	6158
10°	6218	6175	6143
15°	6191	6153	6119
20°	6160	6120	6075
25°	6117	6075	6005
30°	6050	6008	5921
35°	5961	5909	5825
40°	5825	5763	5658
45°	5588	5490	5377
50°	5169	5046	4946
55°	4512	4410	4317
60°	3802	3770	3695
65°	3289	3301	3276
70°	3021	3036	3036
75°	2902	2902	2921
80°	2731	2759	2731
85°	2202	2442	2442



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.1	2.5
10°-20°	272.0	7.2
20°-30°	410.2	10.9
30°-40°	488.8	12.9
40°-50°	481.9	12.8
50°-60°	368.3	9.7
60°-70°	227.9	6.0
70°-80°	129.4	3.4
80°-90°	40.4	1.1
90°-100°	95.1	2.5
100°-110°	250.1	6.6
110°-120°	259.3	6.9
120°-130°	208.0	5.5
130°-140°	163.2	4.3
140°-150°	125.3	3.3
150°-160°	90.2	2.4
160°-170°	55.2	1.5
170°-180°	18.6	0.5
0°-30°	777.2	20.6
0°-40°	1266.0	33.5
0°-60°	2116.1	56.0
0°-90°	2513.8	66.5
90°-120°	604.6	16.0
90°-150°	1101.1	29.1
90°-180°	1265.0	33.5
0°-180°	3779.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1005	1005	1005	1005	1005	
5°	1010	999	1003	999	997	96
15°	972	962	966	963	961	274
25°	901	890	895	886	885	415
35°	794	785	787	777	776	495
45°	642	634	631	620	618	492
55°	421	414	411	404	403	377
65°	226	224	227	225	225	229
75°	122	122	122	123	123	129
85°	31	33	35	35	35	36
90°	1	4	10	5	5	2
95°	12	49	164	84	58	14
105°	45	68	276	420	392	48
115°	80	97	222	442	504	79
125°	111	125	201	340	402	99
135°	133	146	195	275	312	103
145°	154	164	193	234	253	96
155°	174	179	193	212	218	80
165°	188	190	193	200	203	53
175°	195	195	194	196	196	19
180°	195	195	195	195	195	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1005.2	1005.2	1005.2	1005.2	1005.2
2.5°	1011.4	1002.6	1005.2	1003.0	998.2
5°	1010.4	999.4	1002.6	999.1	997.4
7.5°	1002.6	991.7	994.9	991.5	990.4
10°	995.6	985.5	988.7	985.2	983.5
12.5°	988.0	977.2	981.1	976.9	975.2
15°	972.3	962.1	966.2	962.7	961.0
17.5°	954.9	944.1	948.2	944.2	942.0
20°	941.1	930.9	935.0	929.0	928.1
22.5°	925.9	915.7	919.8	911.7	911.5
25°	901.3	890.3	895.2	885.7	884.8
27.5°	872.0	861.8	865.9	856.2	855.2
30°	851.9	841.8	845.9	835.4	833.7
32.5°	829.1	819.6	823.0	812.6	811.6
35°	793.9	784.6	787.0	776.6	775.7
37.5°	753.9	745.5	746.8	735.4	734.5
40°	725.5	717.1	717.7	705.6	704.7
42.5°	694.4	685.9	685.2	673.0	672.2
45°	642.4	633.9	631.1	619.9	618.2
47.5°	583.2	574.7	569.5	560.3	559.1
50°	540.2	531.8	527.3	519.4	516.9
52.5°	493.8	485.4	481.5	474.4	471.8
55°	420.8	414.0	411.2	404.3	402.6
57.5°	351.3	346.8	346.0	339.2	338.5
60°	309.1	306.5	306.5	300.4	300.4
62.5°	273.1	271.2	272.5	268.5	267.9
65°	226.0	224.3	226.8	225.1	225.1
67.5°	188.7	188.7	190.3	189.6	189.6
70°	168.0	168.0	168.8	168.8	168.8
72.5°	149.3	148.6	150.8	150.8	150.1
75°	122.1	122.1	122.1	122.9	122.9
77.5°	95.1	95.2	95.9	95.7	95.1
80°	77.1	77.9	77.9	77.1	77.1
82.5°	59.0	59.9	59.9	59.7	59.0
85°	31.2	32.9	34.6	34.6	34.6
87.5°	9.3	12.5	15.9	14.8	14.2
90°	1.3	3.7	10.0	5.0	5.0
92.5°	5.3	25.3	56.1	24.8	16.0
95°	12.5	49.2	163.9	84.5	57.6
97.5°	21.8	54.1	245.2	195.0	143.6
100°	28.8	58.1	270.3	273.9	212.7
102.5°	34.8	62.2	277.3	341.1	288.8
105°	45.0	68.3	276.5	419.8	391.6
107.5°	55.6	77.1	260.8	460.6	467.5
110°	62.6	82.1	247.7	471.1	500.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	69.6	88.2	235.7	464.5	509.5
115°	80.1	97.2	221.5	441.8	504.2
117.5°	90.3	106.0	211.7	410.5	479.7
120°	96.3	111.0	207.7	389.4	456.7
122.5°	102.3	117.0	204.7	368.4	434.7
125°	111.4	124.8	201.4	340.5	401.6
127.5°	118.6	132.3	198.7	318.0	369.6
130°	122.6	137.3	197.7	303.9	351.6
132.5°	126.6	141.3	196.7	291.8	334.6
135°	132.6	146.1	195.2	274.8	311.6
137.5°	138.9	152.1	194.9	262.2	292.3
140°	143.9	156.1	193.9	252.1	280.3
142.5°	147.9	159.1	193.9	245.0	269.3
145°	153.9	163.7	192.7	234.4	252.7
147.5°	159.9	169.4	192.7	225.6	240.7
150°	163.9	172.5	192.7	220.5	232.7
152.5°	167.9	174.5	192.7	216.4	225.7
155°	173.9	178.8	192.7	211.6	217.7
157.5°	178.4	183.1	192.7	207.3	211.7
160°	181.4	185.1	192.7	205.3	207.7
162.5°	184.4	187.1	192.7	203.3	205.7
165°	187.7	190.1	192.7	200.2	202.7
167.5°	190.7	191.9	193.9	199.0	199.9
170°	192.7	193.9	193.9	198.9	198.9
172.5°	193.7	193.9	193.9	197.9	196.9
175°	195.2	195.2	193.9	196.4	196.4
177.5°	195.2	195.2	194.2	196.2	195.2
180°	195.2	195.2	195.2	195.2	195.2

(END OF REPORT)