

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: P563199

Luminaire Tested: **SQ4-PP3-025U-050D-940-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563199
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-025U-050D-940-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

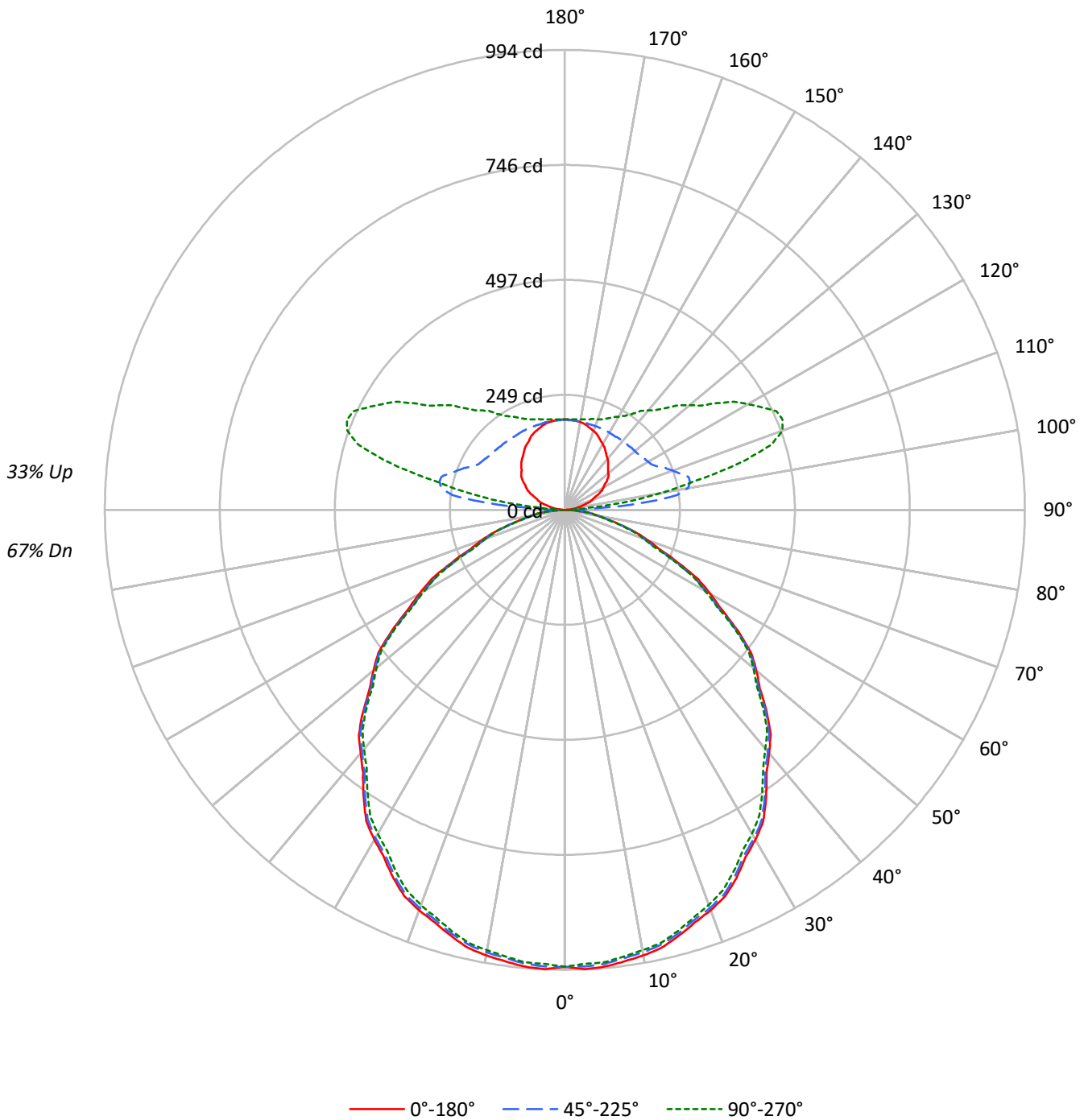
Lumens per Lamp: N/A
Luminaire Lumens: 3794.0 lumens
Efficiency: N/A
Efficacy: 108.7 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

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	94	90	96	92	89	86	82	79	77	72	70	69	64	62	61	57
2	93	85	79	74	87	81	75	71	72	68	64	64	61	58	56	54	52	48
3	85	75	68	62	80	71	65	59	64	58	54	57	52	49	50	47	44	41
4	78	67	59	53	73	63	56	50	57	51	46	51	46	42	45	41	38	35
5	72	60	51	45	67	57	49	44	51	45	40	45	41	37	40	37	33	31
6	66	54	45	39	62	51	43	38	46	40	35	41	36	32	37	33	29	27
7	61	49	40	35	57	46	39	33	42	36	31	37	32	29	34	29	26	24
8	57	44	36	31	53	42	35	30	38	32	28	34	29	26	31	27	24	21
9	53	40	33	28	50	39	31	27	35	29	25	32	27	23	28	24	21	19
10	50	37	30	25	47	35	29	24	32	26	22	29	24	21	26	22	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6075	6075	6075
5°	6119	6082	6061
10°	6109	6066	6038
15°	6068	6035	6002
20°	6028	5994	5949
25°	5957	5915	5857
30°	5847	5815	5742
35°	5693	5654	5583
40°	5511	5477	5414
45°	5361	5324	5270
50°	5168	5136	5086
55°	4901	4836	4799
60°	4462	4334	4313
65°	3931	3767	3753
70°	3394	3253	3253
75°	2921	2880	2838
80°	2575	2607	2543
85°	2018	2202	2202



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.4	2.5
10°-20°	266.7	7.0
20°-30°	399.4	10.5
30°-40°	468.5	12.3
40°-50°	470.0	12.4
50°-60°	400.9	10.6
60°-70°	261.5	6.9
70°-80°	131.2	3.5
80°-90°	37.4	1.0
90°-100°	95.1	2.5
100°-110°	250.1	6.6
110°-120°	259.3	6.8
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°	759.5	20.0
0°-40°	1227.9	32.4
0°-60°	2098.8	55.3
0°-90°	2528.8	66.7
90°-120°	604.6	15.9
90°-150°	1101.1	29.0
90°-180°	1265.0	33.3
0°-180°	3794.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	988	988	988	988	988	
5°	991	982	985	982	982	94
15°	953	944	948	944	943	269
25°	878	868	872	864	863	404
35°	758	751	753	744	744	474
45°	616	612	612	606	606	475
55°	457	455	451	448	448	406
65°	270	265	259	257	258	270
75°	123	123	121	120	119	133
85°	29	31	31	31	31	34
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°	987.6	987.6	987.6	987.6	987.6
2.5°	993.8	985.7	987.6	986.1	982.1
5°	991.1	981.8	985.0	981.6	981.6
7.5°	984.3	974.2	977.4	973.9	973.8
10°	978.1	967.9	971.2	967.7	966.8
12.5°	969.1	958.9	962.9	958.7	958.5
15°	953.0	943.7	947.8	944.3	942.6
17.5°	934.8	924.7	929.6	924.8	924.1
20°	921.0	910.8	915.8	908.9	908.9
22.5°	904.3	894.2	899.8	890.8	890.8
25°	877.7	867.5	871.6	863.8	863.0
27.5°	846.0	836.0	840.3	831.5	831.3
30°	823.2	813.8	818.8	809.3	808.4
32.5°	798.2	789.6	793.2	783.7	782.8
35°	758.2	750.6	753.0	744.4	743.5
37.5°	716.2	708.4	711.2	703.7	703.4
40°	686.4	681.3	682.1	676.0	674.3
42.5°	658.7	652.9	653.7	647.6	647.3
45°	616.3	612.1	612.0	605.9	605.9
47.5°	571.3	568.1	567.1	562.1	561.9
50°	540.1	537.6	536.7	532.3	531.5
52.5°	507.6	506.4	503.4	499.8	499.6
55°	457.0	455.3	451.0	448.3	447.5
57.5°	402.1	398.8	393.8	390.0	390.7
60°	362.7	359.3	352.3	350.6	350.6
62.5°	324.6	320.5	313.5	311.1	312.5
65°	270.1	265.0	258.8	257.1	257.9
67.5°	220.5	216.0	209.3	209.3	208.6
70°	188.7	186.2	180.9	180.9	180.9
72.5°	160.3	159.1	155.3	155.3	154.6
75°	122.9	122.9	121.2	120.3	119.4
77.5°	92.1	92.4	91.6	90.7	89.2
80°	72.7	74.4	73.6	72.7	71.8
82.5°	54.7	56.4	56.3	54.7	54.5
85°	28.6	31.1	31.2	31.2	31.2
87.5°	7.9	11.1	13.1	12.1	12.8
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)