

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: P563391

Luminaire Tested: **SQ4-PP3-075U-050D-940-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563391
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-PP3-075U-050D-940-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

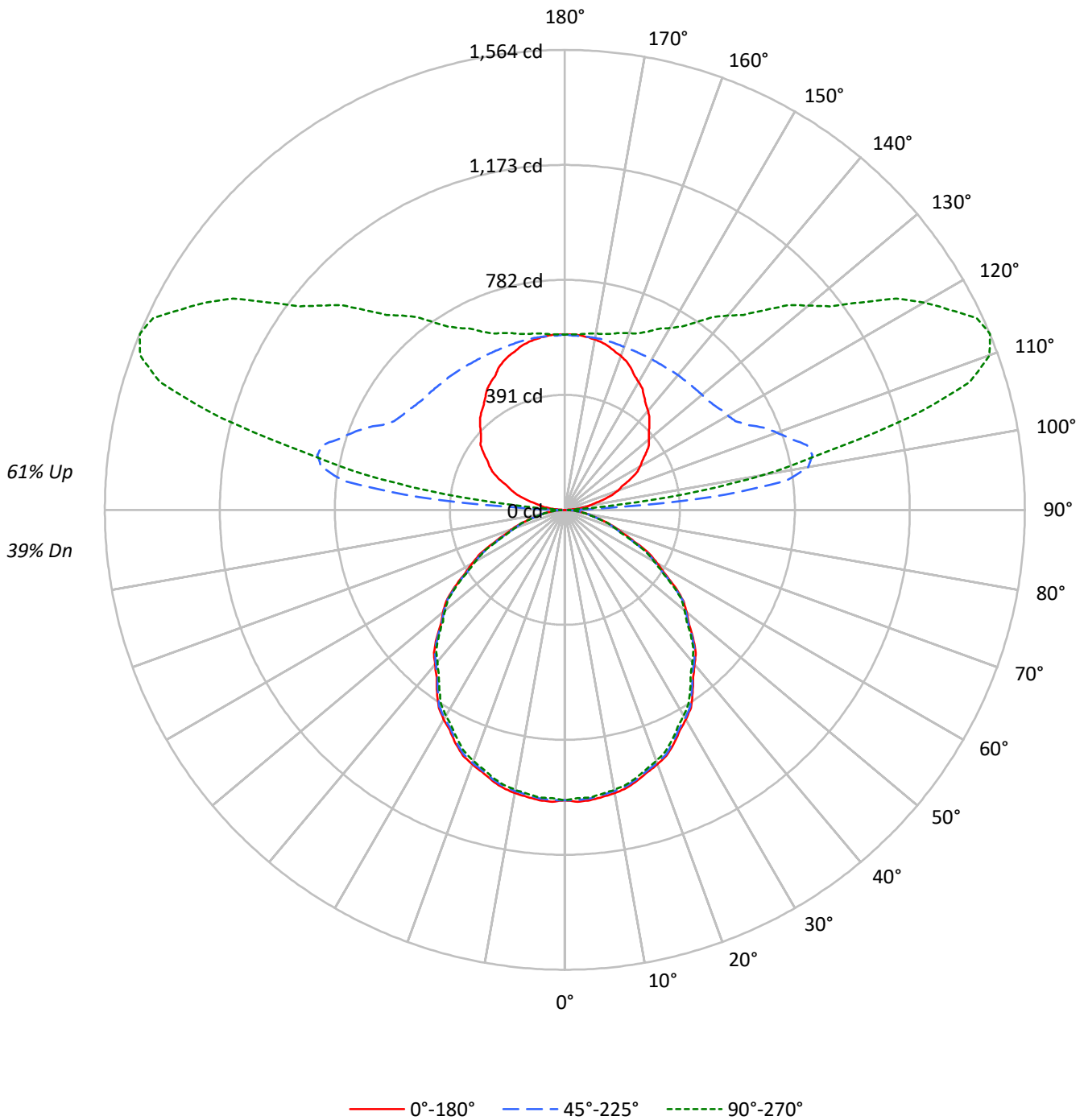
Lumens per Lamp: N/A
Luminaire Lumens: 6411.4 lumens
Efficiency: N/A
Efficacy: 118.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

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	40	34
2	87	80	74	69	79	73	68	64	60	56	53	48	45	43	36	35	33	28
3	80	70	63	58	72	64	58	53	53	48	45	42	39	37	32	30	29	24
4	73	62	55	49	66	57	50	45	47	42	38	38	34	31	29	27	25	21
5	67	55	47	42	60	51	44	39	42	37	33	34	30	27	26	24	22	18
6	61	50	42	36	56	46	39	34	38	33	29	30	27	24	24	21	19	16
7	57	45	37	32	51	41	34	29	34	29	25	28	24	21	22	19	17	14
8	53	41	33	28	48	37	31	26	31	26	22	25	21	19	20	17	15	13
9	49	37	30	25	44	34	28	23	28	23	20	23	19	17	18	16	14	11
10	46	34	27	22	42	31	25	21	26	21	18	21	18	15	17	14	12	10

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	1.5
10°-20°	266.7	4.2
20°-30°	399.4	6.2
30°-40°	468.5	7.3
40°-50°	470.0	7.3
50°-60°	400.9	6.3
60°-70°	261.5	4.1
70°-80°	131.2	2.0
80°-90°	37.8	0.6
90°-100°	281.1	4.4
100°-110°	773.3	12.1
110°-120°	798.1	12.4
120°-130°	639.5	10.0
130°-140°	502.3	7.8
140°-150°	384.9	6.0
150°-160°	276.7	4.3
160°-170°	169.2	2.6
170°-180°	57.0	0.9
0°-30°	759.5	11.8
0°-40°	1227.9	19.2
0°-60°	2098.8	32.7
0°-90°	2529.3	39.4
90°-120°	1852.5	28.9
90°-150°	3379.1	52.7
90°-180°	3882.0	60.5
0°-180°	6411.4	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	5	9	11	11	4
95°	42	153	497	212	136	44
105°	138	213	852	1298	1211	146
115°	245	298	683	1361	1544	241
125°	337	384	620	1049	1229	301
135°	407	452	602	848	960	314
145°	470	503	593	723	778	295
155°	532	550	590	650	668	245
165°	576	583	592	616	620	162
175°	596	597	593	601	600	57
180°	596	596	596	596	596	

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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	11.3	12.9	13.4	14.1
90°	1.3	5.0	8.9	11.4	11.4
92.5°	17.5	74.8	129.6	49.8	40.8
95°	41.8	153.4	497.0	212.5	135.7
97.5°	68.2	170.1	758.5	584.4	412.3
100°	87.5	180.5	840.6	848.5	692.3
102.5°	105.7	192.8	861.9	1052.6	909.3
105°	138.2	212.6	852.0	1297.6	1210.8
107.5°	169.1	237.1	803.6	1417.6	1443.4
110°	191.5	253.4	767.1	1447.4	1536.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	211.7	271.7	730.6	1428.2	1564.1
115°	244.7	298.0	683.4	1360.8	1544.3
117.5°	276.1	325.2	653.5	1266.3	1473.8
120°	295.4	342.5	640.3	1195.4	1409.9
122.5°	312.7	359.8	631.2	1133.3	1336.9
125°	337.3	384.4	620.0	1048.8	1228.6
127.5°	360.6	405.5	612.6	978.3	1136.0
130°	372.8	418.6	608.6	936.4	1080.2
132.5°	387.0	432.8	605.5	899.6	1029.5
135°	407.0	451.6	602.2	848.2	959.8
137.5°	425.8	467.2	599.5	806.7	898.7
140°	440.0	478.4	598.4	779.1	862.2
142.5°	452.1	487.6	596.4	754.5	825.6
145°	470.4	502.6	593.4	722.7	778.5
147.5°	489.9	517.7	591.9	694.5	739.2
150°	502.1	526.9	590.8	679.1	713.8
152.5°	513.2	536.1	589.8	665.8	694.5
155°	532.5	549.9	589.6	649.6	668.2
157.5°	546.5	560.6	589.6	636.3	649.2
160°	556.6	567.8	589.6	629.1	639.0
162.5°	564.7	573.9	590.6	623.0	630.9
165°	575.6	583.1	592.1	616.3	620.0
167.5°	583.2	588.9	593.4	610.6	611.6
170°	588.3	592.0	593.4	608.6	608.6
172.5°	592.4	594.1	593.4	605.5	604.5
175°	595.9	597.1	593.4	601.0	599.7
177.5°	596.9	596.9	592.9	598.9	596.9
180°	595.9	595.9	595.9	595.9	595.9

(END OF REPORT)