

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: P564927

Luminaire Tested: **SQ4-PW1-100U-050D-940-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564927
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, 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-PW1-100U-050D-940-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

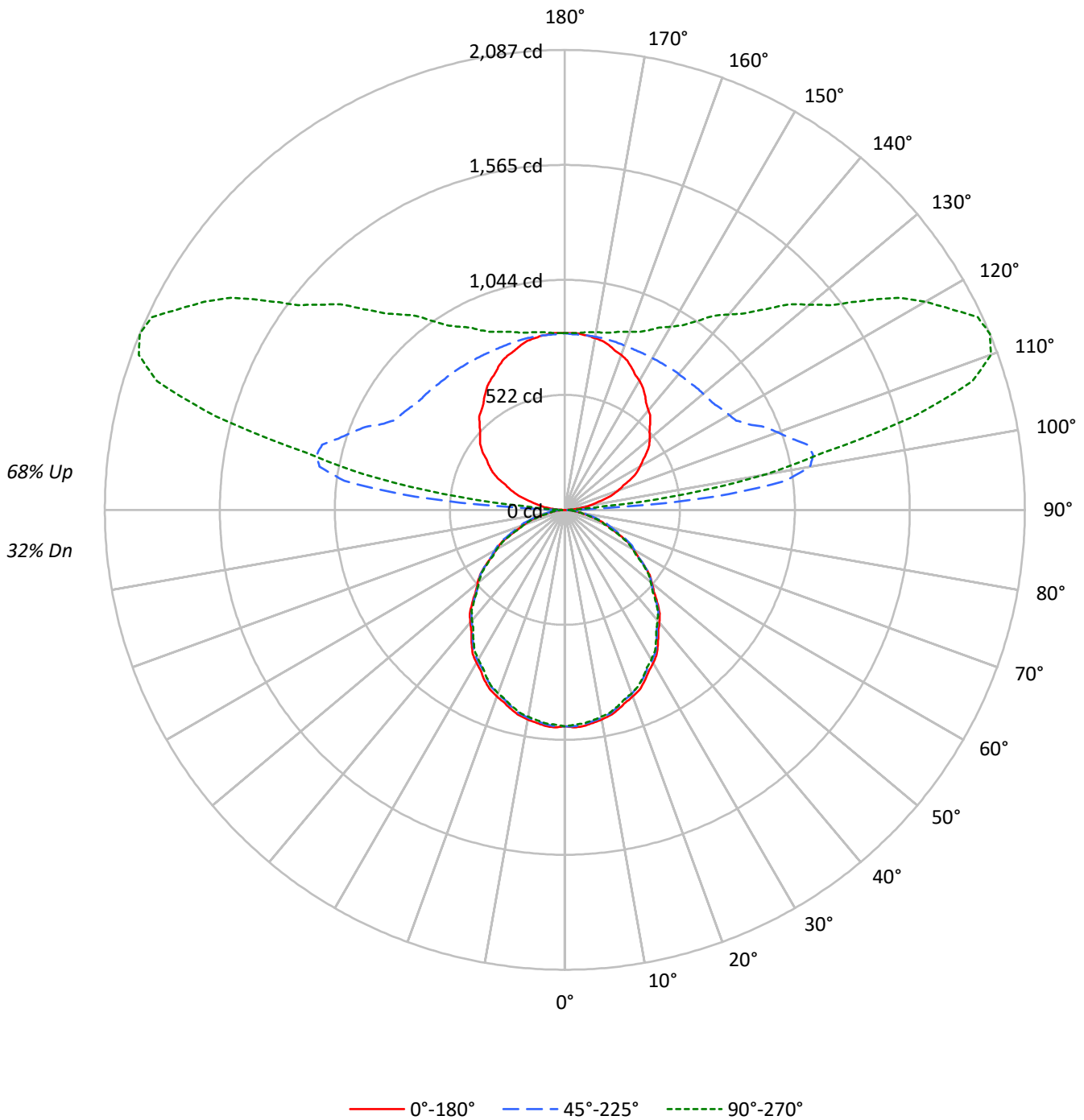
Lumens per Lamp: N/A
Luminaire Lumens: 7709.8 lumens
Efficiency: N/A
Efficacy: 119.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 64.3
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	103	103	103	103	93	93	93	93	74	74	74	56	56	56	40	40	40	32
1	94	90	86	83	84	81	78	75	64	62	60	49	48	47	35	35	34	27
2	86	78	72	67	77	71	66	62	57	53	50	43	41	39	31	30	29	23
3	78	69	62	56	70	62	56	51	50	46	42	38	35	33	28	26	24	20
4	71	61	53	47	64	55	49	43	44	40	36	34	31	28	25	23	21	17
5	65	54	46	40	59	49	42	37	39	35	31	31	27	24	22	20	18	15
6	60	48	41	35	54	44	37	32	35	30	27	28	24	21	20	18	16	13
7	55	44	36	31	50	40	33	28	32	27	23	25	21	19	18	16	14	11
8	51	39	32	27	46	36	29	25	29	24	21	23	19	17	17	15	13	10
9	48	36	29	24	43	33	26	22	27	22	18	21	17	15	16	13	11	9
10	45	33	26	21	40	30	24	20	24	20	17	19	16	13	14	12	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6044	6044	6044
5°	6084	6035	6008
10°	6035	5986	5953
15°	5970	5904	5883
20°	5900	5809	5797
25°	5817	5711	5693
30°	5694	5608	5571
35°	5532	5454	5422
40°	5360	5276	5255
45°	5151	5083	5061
50°	4938	4896	4863
55°	4707	4707	4633
60°	4420	4505	4345
65°	4045	4247	3944
70°	3566	3908	3473
75°	3044	3498	2963
80°	2363	2943	2391
85°	1524	2258	2018



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.5	1.2
10°-20°	261.2	3.4
20°-30°	387.5	5.0
30°-40°	453.4	5.9
40°-50°	451.4	5.9
50°-60°	389.8	5.1
60°-70°	280.6	3.6
70°-80°	147.1	1.9
80°-90°	38.1	0.5
90°-100°	375.4	4.9
100°-110°	1036.3	13.4
110°-120°	1068.7	13.9
120°-130°	858.8	11.1
130°-140°	674.9	8.8
140°-150°	517.7	6.7
150°-160°	372.0	4.8
160°-170°	227.5	3.0
170°-180°	76.7	1.0
0°-30°	741.3	9.6
0°-40°	1194.7	15.5
0°-60°	2035.9	26.4
0°-90°	2501.8	32.4
90°-120°	2480.4	32.2
90°-150°	4531.8	58.8
90°-180°	5208.0	67.6
0°-180°	7709.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	983	983	983	983	983	
5°	985	974	978	975	973	93
15°	938	926	927	926	924	264
25°	857	843	842	836	839	394
35°	737	727	726	720	722	461
45°	592	587	584	583	582	457
55°	439	438	439	433	432	392
65°	278	286	292	280	271	275
75°	128	140	147	137	125	137
85°	22	28	32	30	29	29
90°	3	5	10	12	13	5
95°	55	203	681	280	182	59
105°	185	285	1140	1741	1639	196
115°	331	400	918	1818	2067	325
125°	454	517	832	1409	1653	404
135°	546	605	809	1141	1286	423
145°	634	677	799	971	1045	397
155°	714	738	793	871	899	329
165°	773	783	796	827	834	218
175°	802	803	798	809	807	76
180°	802	802	802	802	802	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	982.7	982.7	982.7	982.7	982.7
2.5°	988.2	980.1	982.7	980.5	975.7
5°	985.3	974.2	977.5	974.8	973.1
7.5°	975.2	965.1	967.4	964.6	963.6
10°	966.2	956.0	958.4	954.9	953.2
12.5°	955.8	945.0	947.3	943.8	942.8
15°	937.6	925.8	927.2	925.5	923.8
17.5°	916.5	904.5	904.7	902.0	901.6
20°	901.3	888.6	887.4	884.0	885.7
22.5°	884.7	871.3	870.1	865.3	867.7
25°	857.1	842.7	841.5	836.4	838.9
27.5°	825.3	811.0	811.1	803.8	806.6
30°	801.7	788.2	789.6	781.0	784.4
32.5°	776.8	764.6	765.3	756.8	760.2
35°	736.8	726.6	726.4	719.5	722.1
37.5°	695.9	686.9	685.5	681.6	682.2
40°	667.5	659.9	657.1	654.5	654.5
42.5°	637.7	630.8	628.0	626.1	625.4
45°	592.2	587.1	584.4	582.6	581.8
47.5°	547.2	542.4	540.1	538.8	538.0
50°	516.0	512.6	511.7	509.1	508.2
52.5°	484.8	482.8	481.9	478.6	477.7
55°	438.9	438.1	438.9	432.9	432.0
57.5°	391.2	392.5	395.3	387.1	385.1
60°	359.3	362.7	366.2	356.6	353.2
62.5°	326.7	332.2	337.1	326.1	321.4
65°	277.9	286.4	291.8	280.3	271.0
67.5°	230.8	241.3	247.8	235.4	224.9
70°	198.3	210.1	217.3	204.9	193.1
72.5°	169.9	183.1	188.9	177.2	165.4
75°	128.1	140.0	147.2	137.4	124.7
77.5°	90.9	102.1	108.0	99.5	89.0
80°	66.7	78.5	83.1	76.0	67.5
82.5°	47.3	57.1	60.3	56.0	50.2
85°	21.6	28.4	32.0	30.3	28.6
87.5°	6.1	11.3	15.2	15.5	16.4
90°	2.6	5.1	10.3	11.6	12.8
92.5°	23.1	95.8	171.3	62.5	48.7
95°	55.1	203.1	681.0	279.9	182.1
97.5°	91.3	227.5	1008.8	776.7	562.5
100°	118.0	242.1	1129.9	1137.8	924.7
102.5°	143.6	258.8	1153.5	1405.9	1203.7
105°	184.7	285.0	1140.1	1740.6	1639.0
107.5°	228.3	317.6	1076.5	1902.0	1939.1
110°	259.1	339.3	1027.3	1936.7	2057.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	286.8	364.0	981.1	1909.3	2086.8
115°	330.9	399.8	918.3	1817.8	2067.4
117.5°	369.4	438.1	877.0	1689.1	1973.0
120°	395.0	462.7	860.5	1601.9	1887.8
122.5°	419.6	484.3	847.2	1520.5	1791.4
125°	454.0	516.7	832.3	1408.6	1653.1
127.5°	483.2	545.9	823.6	1313.9	1524.9
130°	502.7	565.4	819.5	1256.1	1447.9
132.5°	521.2	580.9	815.4	1207.4	1381.2
135°	546.3	605.3	809.2	1140.9	1286.3
137.5°	574.6	628.2	806.2	1085.0	1209.1
140°	589.9	642.6	804.1	1047.7	1156.8
142.5°	607.4	656.0	802.1	1014.6	1110.6
145°	633.5	677.4	799.0	971.2	1045.2
147.5°	658.7	697.1	796.2	934.7	992.1
150°	677.1	708.5	795.1	912.9	959.3
152.5°	691.5	720.9	794.1	894.2	932.6
155°	714.3	738.2	792.6	871.4	899.0
157.5°	735.4	753.7	792.8	854.8	873.6
160°	747.7	764.0	793.9	845.5	859.3
162.5°	757.9	772.2	794.9	837.2	848.0
165°	773.3	783.4	796.4	827.3	833.6
167.5°	785.1	791.2	797.7	821.3	823.4
170°	791.3	796.3	797.7	818.2	818.2
172.5°	796.4	799.4	797.7	814.1	813.1
175°	801.5	802.8	797.7	809.2	806.7
177.5°	803.6	802.6	797.4	804.6	802.6
180°	801.5	801.5	801.5	801.5	801.5

(END OF REPORT)