

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: P562352

Luminaire Tested: **SQ4-PW1-100U-050D-92765-1D-UNV-STD-W-4 (4000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562352
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, 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-92765-1D-UNV-STD-W-4 (4000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

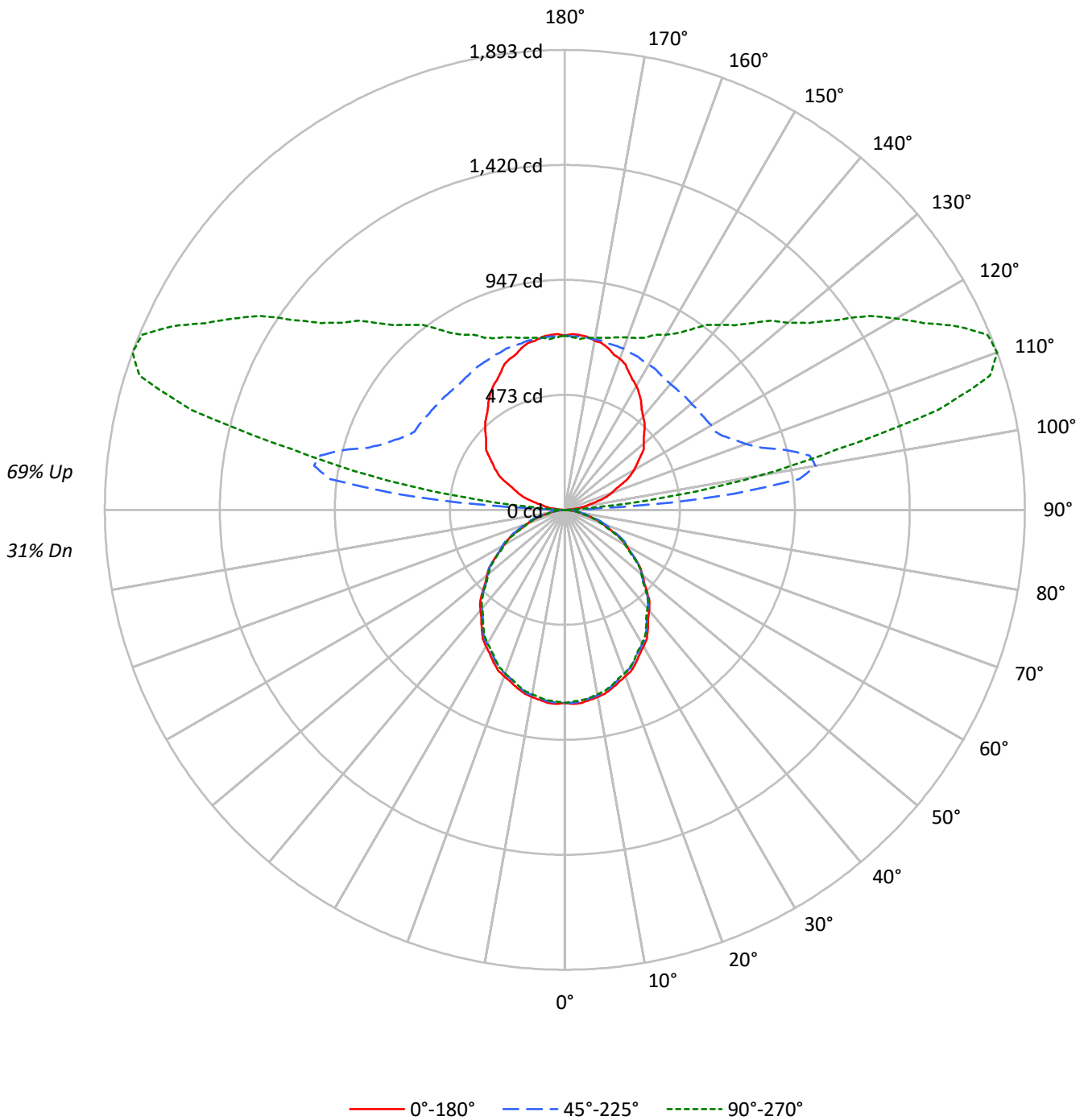
Lumens per Lamp: N/A
Luminaire Lumens: 6475.4 lumens
Efficiency: N/A
Efficacy: 121.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 53.1
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	92	92	92	92	73	73	73	55	55	55	39	39	39	31
1	94	89	86	82	84	81	77	75	64	62	60	49	47	46	34	34	33	26
2	85	78	72	67	76	70	65	61	56	53	50	43	40	38	30	29	28	22
3	78	69	62	56	70	62	56	51	49	45	42	38	35	33	27	25	24	19
4	71	61	53	47	64	55	48	43	44	39	35	34	30	28	24	22	20	16
5	65	54	46	40	58	49	42	37	39	34	30	30	27	24	22	19	18	14
6	60	48	40	35	54	44	37	32	35	30	26	27	24	21	20	17	16	12
7	55	43	36	30	50	39	33	28	32	27	23	25	21	18	18	16	14	11
8	51	39	32	27	46	36	29	25	29	24	20	22	19	16	16	14	12	10
9	48	36	29	24	43	33	26	22	26	22	18	21	17	15	15	13	11	9
10	44	33	26	21	40	30	24	19	24	20	16	19	16	13	14	12	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7336	7336	7336
5°	7383	7325	7292
10°	7324	7265	7226
15°	7247	7167	7139
20°	7160	7050	7036
25°	7060	6932	6910
30°	6911	6807	6762
35°	6714	6619	6580
40°	6505	6404	6378
45°	6253	6169	6142
50°	5993	5942	5902
55°	5714	5714	5623
60°	5364	5467	5274
65°	4910	5154	4788
70°	4327	4742	4214
75°	3697	4246	3597
80°	2864	3570	2901
85°	1853	2742	2445



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.9	1.2
10°-20°	211.4	3.3
20°-30°	313.5	4.8
30°-40°	366.9	5.7
40°-50°	365.2	5.6
50°-60°	315.4	4.9
60°-70°	227.0	3.5
70°-80°	119.1	1.8
80°-90°	29.5	0.5
90°-100°	326.6	5.0
100°-110°	929.4	14.4
110°-120°	890.4	13.8
120°-130°	704.7	10.9
130°-140°	565.7	8.7
140°-150°	442.8	6.8
150°-160°	324.0	5.0
160°-170°	200.7	3.1
170°-180°	68.1	1.1
0°-30°	599.8	9.3
0°-40°	966.7	14.9
0°-60°	1647.3	25.4
0°-90°	2022.9	31.2
90°-120°	2146.4	33.1
90°-150°	3859.7	59.6
90°-180°	4453.0	68.8
0°-180°	6475.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	795	795	795	795	795	
5°	797	788	791	789	787	76
15°	759	749	750	749	747	214
25°	694	682	681	677	679	319
35°	596	588	588	582	584	373
45°	479	475	473	471	471	370
55°	355	354	355	350	350	317
65°	225	232	236	227	219	223
75°	104	113	119	111	101	111
85°	18	23	26	24	23	23
90°	0	0	0	0	0	2
95°	35	141	632	219	135	40
105°	144	219	947	1673	1590	153
115°	268	324	718	1521	1786	264
125°	379	420	686	1138	1360	339
135°	463	502	677	961	1086	358
145°	546	574	683	832	906	341
155°	624	639	699	752	782	289
165°	690	692	707	722	733	194
175°	722	718	715	711	706	68
180°	717	717	717	717	717	

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CATALOG NUMBER: SQ4-PW1-100U-050D-92765-1D-UNV-STD-W-4 (4000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	795.1	795.1	795.1	795.1	795.1
2.5°	799.6	793.0	795.1	793.3	789.5
5°	797.2	788.3	790.9	788.7	787.4
7.5°	789.1	780.8	782.8	780.5	779.7
10°	781.8	773.6	775.5	772.6	771.3
12.5°	773.4	764.6	766.5	763.7	762.9
15°	758.7	749.1	750.3	748.8	747.4
17.5°	741.6	731.8	732.0	729.8	729.5
20°	729.2	719.0	718.0	715.3	716.6
22.5°	715.8	705.0	704.0	700.1	702.1
25°	693.5	681.9	680.9	676.7	678.8
27.5°	667.7	656.2	656.2	650.4	652.6
30°	648.7	637.7	638.9	631.9	634.7
32.5°	628.5	618.6	619.3	612.3	615.1
35°	596.1	587.9	587.7	582.2	584.2
37.5°	563.1	555.8	554.7	551.5	552.0
40°	540.1	533.9	531.7	529.6	529.6
42.5°	516.0	510.4	508.2	506.6	506.1
45°	479.2	475.0	472.8	471.4	470.7
47.5°	442.7	438.9	437.0	436.0	435.3
50°	417.5	414.8	414.0	411.9	411.2
52.5°	392.3	390.6	389.9	387.2	386.5
55°	355.2	354.5	355.2	350.2	349.6
57.5°	316.5	317.6	319.9	313.2	311.6
60°	290.7	293.5	296.3	288.5	285.8
62.5°	264.4	268.8	272.8	263.9	260.0
65°	224.9	231.7	236.1	226.8	219.3
67.5°	186.8	195.3	200.5	190.5	182.0
70°	160.4	170.0	175.8	165.8	156.2
72.5°	137.4	148.1	152.9	143.4	133.8
75°	103.7	113.3	119.1	111.1	100.9
77.5°	73.6	82.6	87.4	80.5	72.0
80°	53.9	63.5	67.2	61.5	54.6
82.5°	38.2	46.2	48.8	45.3	40.6
85°	17.5	23.0	25.9	24.5	23.1
87.5°	4.5	8.3	10.6	10.7	11.2
90°	0.0	0.0	0.0	0.0	0.0
92.5°	10.9	57.8	134.1	39.0	29.4
95°	35.4	140.7	632.3	218.9	134.9
97.5°	65.1	164.8	973.8	696.8	477.5
100°	85.9	179.1	1047.9	1061.5	817.6
102.5°	108.7	194.6	1031.6	1358.7	1145.8
105°	144.4	219.1	947.1	1672.9	1590.3
107.5°	180.7	247.6	848.4	1761.5	1835.1
110°	205.8	268.4	791.7	1727.6	1892.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	229.8	289.2	753.6	1647.4	1883.0
115°	268.5	324.4	718.2	1521.4	1786.5
117.5°	302.5	355.0	697.2	1383.6	1664.4
120°	329.8	373.8	695.0	1304.8	1574.0
122.5°	351.6	395.6	689.5	1235.7	1485.7
125°	378.8	420.1	685.5	1137.5	1360.0
127.5°	408.5	447.2	683.3	1078.8	1262.2
130°	423.8	462.5	680.0	1037.9	1197.8
132.5°	440.2	477.7	680.0	1006.0	1153.1
135°	463.3	502.0	677.3	960.8	1086.1
137.5°	485.1	522.7	677.0	922.6	1030.8
140°	501.5	540.1	675.9	890.9	994.8
142.5°	520.0	552.3	679.2	865.5	958.8
145°	546.5	574.4	682.7	831.6	906.2
147.5°	569.1	596.3	688.7	797.3	861.8
150°	588.7	607.4	690.9	786.0	831.3
152.5°	604.0	623.7	693.1	770.6	812.7
155°	624.1	638.8	699.1	751.6	782.2
157.5°	649.2	658.0	700.4	742.9	764.8
160°	662.3	668.9	705.9	736.3	755.0
162.5°	669.9	677.6	707.0	730.8	745.1
165°	689.5	692.2	707.3	722.5	733.1
167.5°	702.9	700.5	713.5	720.4	724.7
170°	707.3	705.9	711.3	712.8	718.2
172.5°	717.1	712.5	714.6	710.6	714.9
175°	722.2	718.3	715.4	711.2	705.9
177.5°	724.4	718.0	714.6	710.3	711.3
180°	716.8	716.8	716.8	716.8	716.8

(END OF REPORT)