

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: P562147

Luminaire Tested: **SQ4-PW1-025U-050D-92765-1D-UNV-STD-W-4 (5700K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562147
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-PW1-025U-050D-92765-1D-UNV-STD-W-4 (5700K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

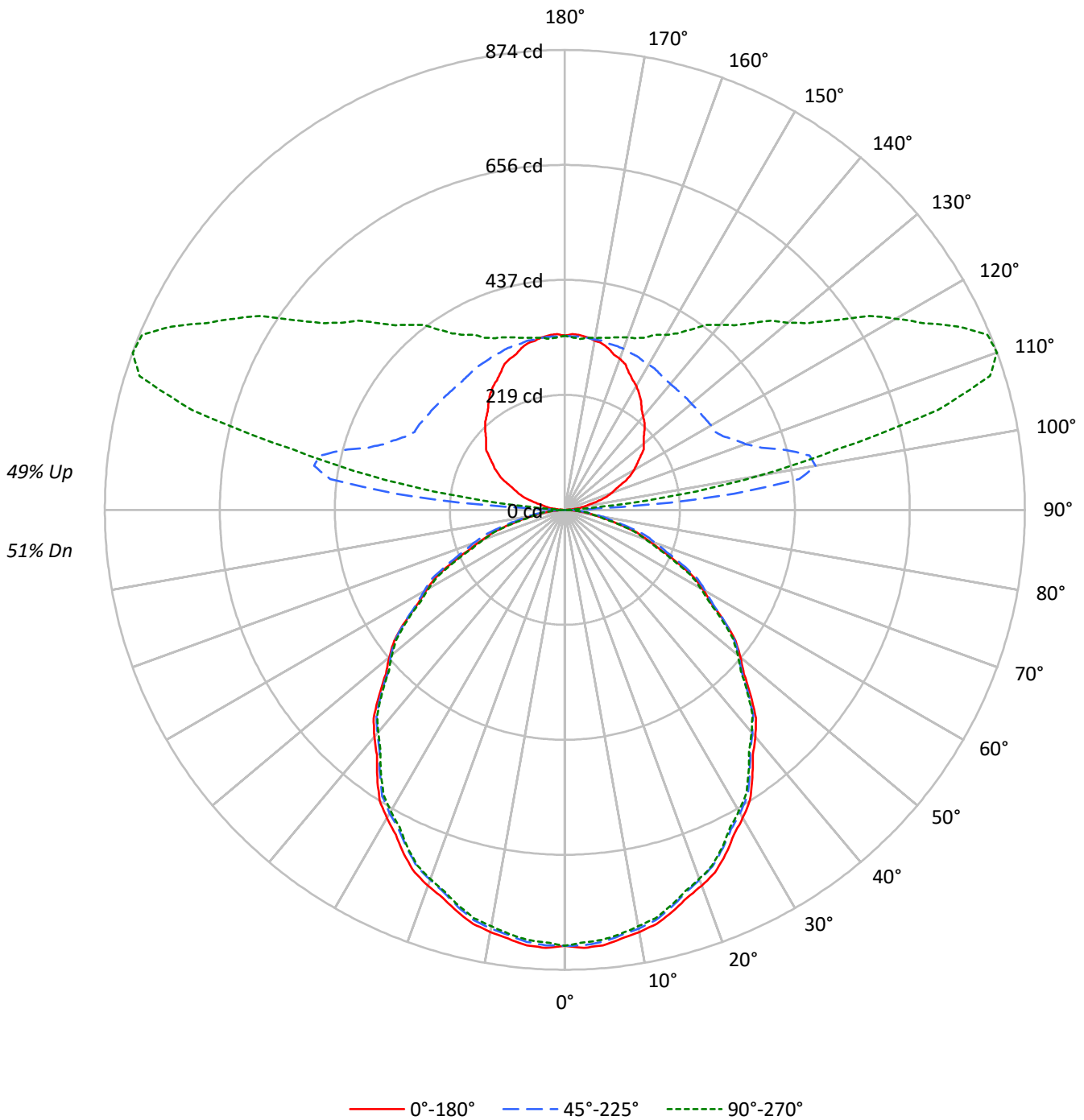
Lumens per Lamp: N/A
Luminaire Lumens: 4162.9 lumens
Efficiency: N/A
Efficacy: 120.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 34.6
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				
RC	80					70					50					30				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																				
0	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57	51		
1	98	94	90	86	90	87	83	80	74	71	69	61	60	58	50	49	48	43		
2	89	82	76	71	82	76	71	66	65	61	57	54	51	49	44	42	41	36		
3	82	72	65	59	75	67	60	55	57	52	48	48	44	41	39	37	35	31		
4	75	64	56	50	69	59	52	47	51	45	41	43	39	35	35	32	30	26		
5	68	57	49	43	63	53	46	40	45	40	35	38	34	31	32	29	26	23		
6	63	51	43	37	58	48	40	35	41	35	31	35	30	27	29	26	23	20		
7	58	46	38	33	54	43	36	31	37	31	27	31	27	24	26	23	20	18		
8	54	42	34	29	50	39	32	27	34	28	24	29	24	21	24	21	18	16		
9	50	38	31	26	47	36	29	24	31	26	22	27	22	19	22	19	17	14		
10	47	35	28	23	44	33	26	22	29	23	20	24	20	17	21	17	15	13		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7644	7644	7644
5°	7693	7632	7599
10°	7632	7570	7529
15°	7551	7467	7439
20°	7461	7346	7331
25°	7356	7223	7200
30°	7201	7092	7045
35°	6997	6898	6857
40°	6778	6672	6646
45°	6515	6429	6400
50°	6244	6192	6150
55°	5953	5953	5858
60°	5589	5698	5495
65°	5115	5370	4988
70°	4510	4942	4392
75°	3850	4424	3747
80°	2986	3725	3023
85°	1927	2858	2551



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.0	1.9
10°-20°	220.3	5.3
20°-30°	326.7	7.8
30°-40°	382.3	9.2
40°-50°	380.6	9.1
50°-60°	328.7	7.9
60°-70°	236.6	5.7
70°-80°	124.1	3.0
80°-90°	30.8	0.7
90°-100°	150.8	3.6
100°-110°	428.9	10.3
110°-120°	411.0	9.9
120°-130°	325.3	7.8
130°-140°	261.1	6.3
140°-150°	204.4	4.9
150°-160°	149.6	3.6
160°-170°	92.6	2.2
170°-180°	31.4	0.8
0°-30°	625.0	15.0
0°-40°	1007.3	24.2
0°-60°	1716.5	41.2
0°-90°	2107.9	50.6
90°-120°	990.7	23.8
90°-150°	1781.4	42.8
90°-180°	2055.0	49.4
0°-180°	4162.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	828	828	828	828	828	
5°	831	821	824	822	820	79
15°	790	780	782	780	779	223
25°	723	710	710	705	707	332
35°	621	613	612	607	609	388
45°	499	495	493	491	490	385
55°	370	369	370	365	364	330
65°	234	241	246	236	228	232
75°	108	118	124	116	105	116
85°	18	24	27	26	24	24
90°	0	0	0	0	0	1
95°	16	65	292	101	62	19
105°	67	101	437	772	734	71
115°	124	150	332	702	825	122
125°	175	194	316	525	628	157
135°	214	232	313	444	501	165
145°	252	265	315	384	418	158
155°	288	295	323	347	361	133
165°	318	320	326	334	338	90
175°	333	332	330	328	326	32
180°	331	331	331	331	331	



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CATALOG NUMBER: SQ4-PW1-025U-050D-92765-1D-UNV-STD-W-4 (5700K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	828.5	828.5	828.5	828.5	828.5
2.5°	833.2	826.3	828.5	826.6	822.6
5°	830.7	821.4	824.1	821.9	820.5
7.5°	822.2	813.6	815.6	813.3	812.4
10°	814.6	806.0	808.0	805.1	803.7
12.5°	805.9	796.7	798.7	795.8	794.9
15°	790.5	780.5	781.8	780.3	778.8
17.5°	772.7	762.6	762.8	760.4	760.2
20°	759.9	749.2	748.2	745.3	746.7
22.5°	745.9	734.6	733.6	729.5	731.5
25°	722.6	710.5	709.5	705.2	707.3
27.5°	695.8	683.8	683.8	677.7	680.0
30°	675.9	664.5	665.7	658.5	661.3
32.5°	654.9	644.6	645.3	638.0	640.9
35°	621.2	612.6	612.4	606.6	608.8
37.5°	586.7	579.2	578.0	574.6	575.2
40°	562.8	556.4	554.0	551.8	551.8
42.5°	537.7	531.8	529.5	527.9	527.3
45°	499.3	495.0	492.7	491.2	490.5
47.5°	461.3	457.3	455.3	454.3	453.6
50°	435.0	432.2	431.4	429.2	428.5
52.5°	408.8	407.1	406.3	403.5	402.8
55°	370.1	369.4	370.1	365.0	364.2
57.5°	329.8	330.9	333.3	326.4	324.7
60°	302.9	305.8	308.8	300.7	297.8
62.5°	275.5	280.0	284.2	275.0	271.0
65°	234.3	241.4	246.0	236.3	228.5
67.5°	194.6	203.5	208.9	198.5	189.6
70°	167.2	177.1	183.2	172.8	162.8
72.5°	143.2	154.3	159.3	149.4	139.4
75°	108.0	118.0	124.1	115.8	105.1
77.5°	76.6	86.1	91.1	83.9	75.0
80°	56.2	66.2	70.1	64.1	56.9
82.5°	39.9	48.1	50.8	47.2	42.3
85°	18.2	24.0	27.0	25.5	24.1
87.5°	4.7	8.7	11.1	11.1	11.7
90°	0.0	0.0	0.0	0.0	0.0
92.5°	5.0	26.7	61.9	18.0	13.6
95°	16.4	64.9	291.8	101.0	62.3
97.5°	30.1	76.1	449.5	321.6	220.4
100°	39.6	82.7	483.7	489.9	377.4
102.5°	50.2	89.8	476.1	627.1	528.8
105°	66.7	101.1	437.1	772.1	734.0
107.5°	83.4	114.3	391.6	813.0	847.0
110°	95.0	123.9	365.4	797.4	873.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	106.0	133.5	347.8	760.4	869.1
115°	123.9	149.7	331.5	702.2	824.6
117.5°	139.6	163.9	321.8	638.6	768.2
120°	152.2	172.5	320.8	602.2	726.4
122.5°	162.3	182.6	318.3	570.3	685.7
125°	174.8	193.9	316.4	525.0	627.7
127.5°	188.6	206.4	315.4	497.9	582.5
130°	195.6	213.4	313.8	479.1	552.9
132.5°	203.2	220.5	313.8	464.3	532.2
135°	213.8	231.7	312.6	443.5	501.3
137.5°	223.9	241.3	312.5	425.8	475.7
140°	231.5	249.3	312.0	411.2	459.1
142.5°	240.0	254.9	313.5	399.5	442.5
145°	252.2	265.1	315.1	383.8	418.3
147.5°	262.7	275.2	317.9	368.0	397.8
150°	271.7	280.3	318.9	362.8	383.7
152.5°	278.8	287.9	319.9	355.7	375.1
155°	288.1	294.8	322.7	346.9	361.0
157.5°	299.6	303.7	323.3	342.9	353.0
160°	305.7	308.7	325.8	339.8	348.4
162.5°	309.2	312.8	326.3	337.3	343.9
165°	318.3	319.5	326.4	333.5	338.4
167.5°	324.4	323.3	329.3	332.5	334.5
170°	326.4	325.8	328.3	329.0	331.5
172.5°	331.0	328.9	329.8	328.0	329.9
175°	333.3	331.5	330.2	328.3	325.8
177.5°	334.4	331.4	329.8	327.8	328.3
180°	330.8	330.8	330.8	330.8	330.8

(END OF REPORT)