

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: P562199

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

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562199
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-PW1-050U-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 500 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

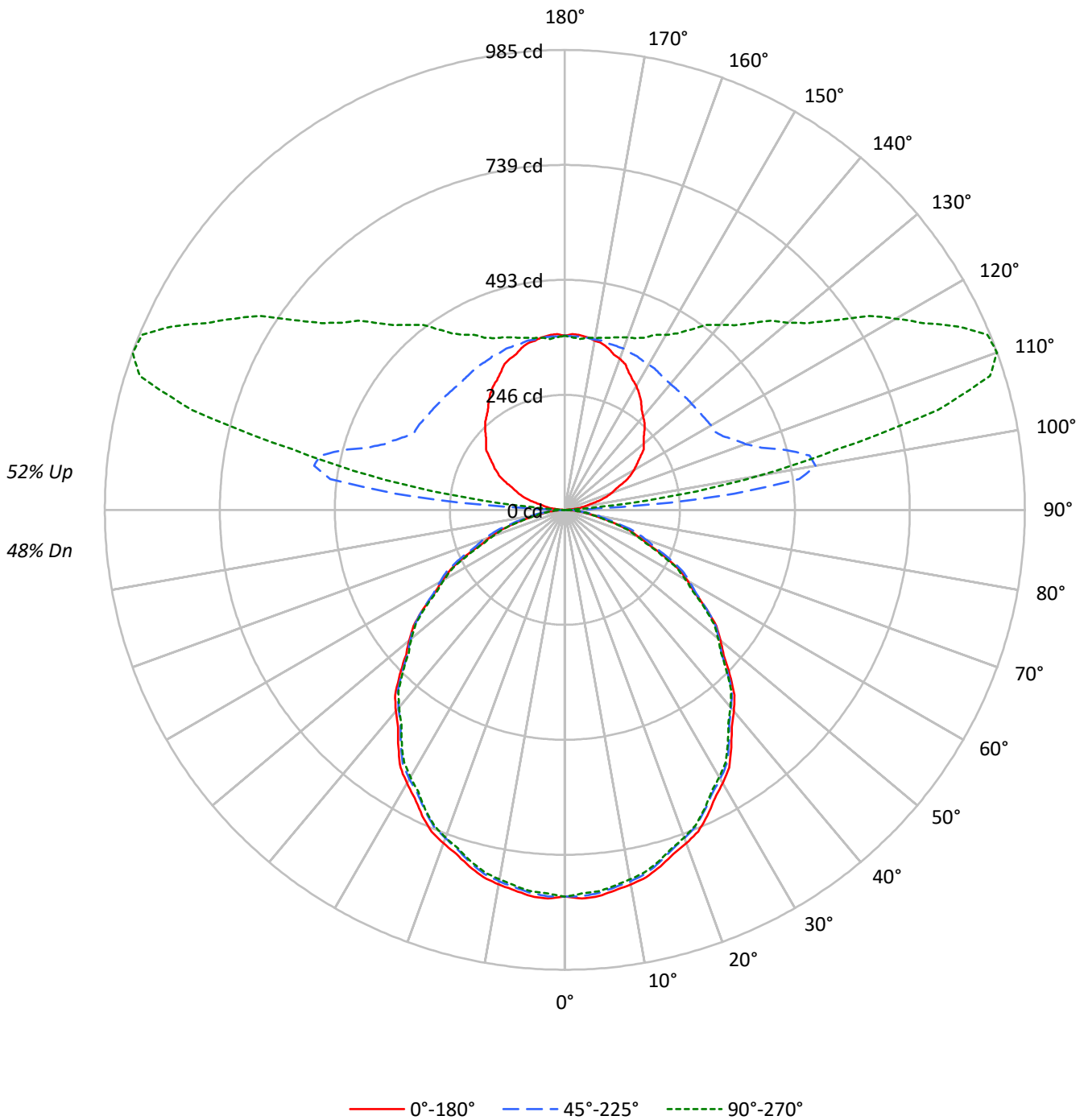
Lumens per Lamp: N/A
Luminaire Lumens: 4423.9 lumens
Efficiency: N/A
Efficacy: 121.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 36.4
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	107	107	107	107	98	98	98	98	82	82	82	67	67	67	54	54	54	48
1	97	93	89	86	89	86	83	80	72	70	68	59	58	56	48	47	46	40
2	89	81	75	70	81	75	70	65	63	59	56	52	50	47	42	40	39	34
3	81	72	64	59	74	66	60	55	56	51	47	46	43	40	37	35	33	29
4	74	63	56	50	68	59	52	46	50	44	40	41	37	34	33	31	28	25
5	68	56	48	42	62	52	45	40	44	39	35	37	33	30	30	27	25	22
6	63	51	43	37	57	47	40	35	40	34	30	33	29	26	27	24	22	19
7	58	46	38	32	53	42	35	30	36	31	27	30	26	23	25	22	19	17
8	54	41	34	28	49	39	32	27	33	28	24	28	24	20	23	20	17	15
9	50	38	30	25	46	35	29	24	30	25	21	26	21	18	21	18	16	14
10	47	35	27	23	43	32	26	21	28	23	19	24	20	17	20	17	14	12

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	1.8
10°-20°	220.3	5.0
20°-30°	326.7	7.4
30°-40°	382.3	8.6
40°-50°	380.6	8.6
50°-60°	328.7	7.4
60°-70°	236.6	5.3
70°-80°	124.1	2.8
80°-90°	30.8	0.7
90°-100°	169.9	3.8
100°-110°	483.4	10.9
110°-120°	463.2	10.5
120°-130°	366.6	8.3
130°-140°	294.2	6.7
140°-150°	230.4	5.2
150°-160°	168.5	3.8
160°-170°	104.4	2.4
170°-180°	35.4	0.8
0°-30°	625.0	14.1
0°-40°	1007.3	22.8
0°-60°	1716.5	38.8
0°-90°	2107.9	47.6
90°-120°	1116.5	25.2
90°-150°	2007.7	45.4
90°-180°	2316.0	52.4
0°-180°	4423.9	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°	18	73	329	114	70	21
105°	75	114	493	870	827	79
115°	140	169	374	791	929	137
125°	197	218	356	592	707	176
135°	241	261	352	500	565	186
145°	284	299	355	433	471	178
155°	325	332	364	391	407	150
165°	359	360	368	376	381	101
175°	376	374	372	370	367	36
180°	373	373	373	373	373	



TEST NUMBER: P562199

CATALOG NUMBER: SQ4-PW1-050U-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°	5.7	30.1	69.8	20.3	15.3
95°	18.4	73.2	328.9	113.8	70.2
97.5°	33.9	85.7	506.5	362.5	248.4
100°	44.7	93.2	545.1	552.1	425.3
102.5°	56.6	101.2	536.6	706.7	596.0
105°	75.1	114.0	492.6	870.2	827.2
107.5°	94.0	128.8	441.3	916.3	954.5
110°	107.0	139.6	411.8	898.6	984.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	119.5	150.4	392.0	856.9	979.5
115°	139.6	168.8	373.6	791.4	929.3
117.5°	157.4	184.7	362.6	719.7	865.8
120°	171.5	194.4	361.5	678.7	818.7
122.5°	182.9	205.8	358.7	642.8	772.8
125°	197.1	218.5	356.5	591.7	707.4
127.5°	212.5	232.6	355.4	561.2	656.5
130°	220.4	240.5	353.7	539.9	623.1
132.5°	229.0	248.5	353.7	523.3	599.8
135°	241.0	261.1	352.3	499.8	564.9
137.5°	252.3	271.9	352.2	479.9	536.2
140°	260.9	281.0	351.6	463.4	517.5
142.5°	270.5	287.3	353.3	450.2	498.7
145°	284.2	298.8	355.1	432.6	471.4
147.5°	296.0	310.2	358.2	414.7	448.3
150°	306.2	315.9	359.4	408.8	432.4
152.5°	314.2	324.4	360.5	400.9	422.8
155°	324.6	332.3	363.6	390.9	406.9
157.5°	337.7	342.3	364.3	386.4	397.8
160°	344.5	348.0	367.2	383.0	392.7
162.5°	348.5	352.5	367.7	380.1	387.6
165°	358.7	360.1	367.9	375.8	381.4
167.5°	365.6	364.4	371.1	374.7	377.0
170°	367.9	367.2	370.0	370.8	373.6
172.5°	373.0	370.6	371.7	369.6	371.9
175°	375.7	373.6	372.1	370.0	367.2
177.5°	376.8	373.5	371.7	369.5	370.0
180°	372.9	372.9	372.9	372.9	372.9

(END OF REPORT)