

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: P564734

Luminaire Tested: **SQ4-PW1-075U-050D-940-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564734
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-PW1-075U-050D-940-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

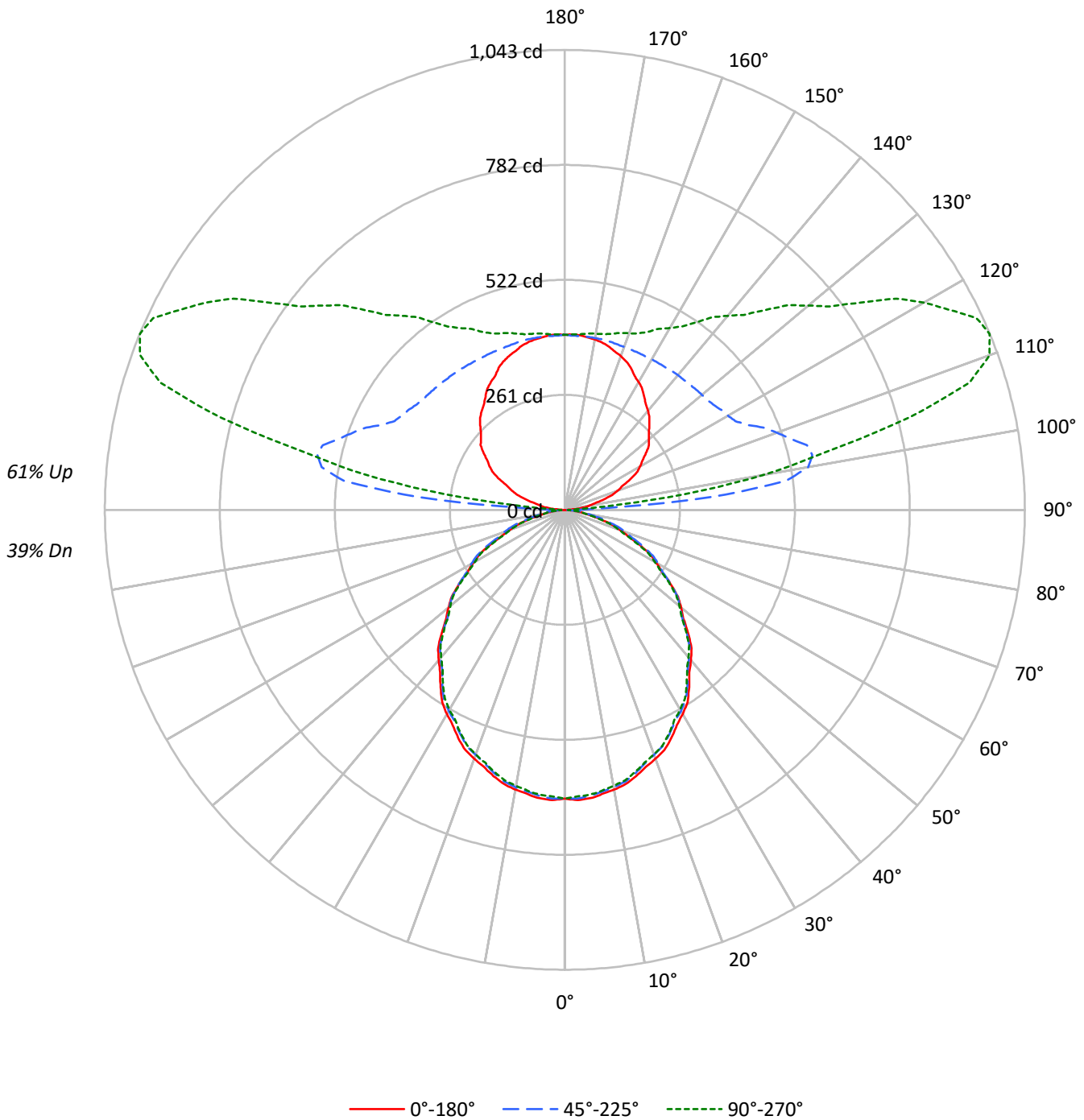
Lumens per Lamp: N/A
Luminaire Lumens: 4255.8 lumens
Efficiency: N/A
Efficacy: 122.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 34.7
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	95	91	87	84	87	83	80	77	68	66	64	54	52	51	41	40	39	33
2	87	80	74	69	79	73	68	63	59	56	53	47	45	43	36	34	33	28
3	79	70	63	57	72	64	58	53	52	48	44	42	39	36	32	30	28	24
4	73	62	54	48	66	57	50	45	47	42	38	37	34	31	29	26	24	20
5	67	55	47	41	60	50	44	38	42	36	32	33	30	27	26	23	21	18
6	61	49	41	36	55	45	38	33	37	32	28	30	26	23	23	21	19	16
7	57	45	37	31	51	41	34	29	34	29	25	27	24	21	21	19	17	14
8	52	40	33	28	48	37	30	26	31	26	22	25	21	18	20	17	15	12
9	49	37	29	24	44	34	27	23	28	23	20	23	19	16	18	15	13	11
10	45	34	27	22	41	31	25	20	26	21	18	21	18	15	17	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6044	6044	6044
5°	6083	6035	6009
10°	6034	5986	5954
15°	5971	5905	5883
20°	5899	5809	5798
25°	5817	5711	5694
30°	5694	5608	5571
35°	5532	5455	5422
40°	5360	5276	5256
45°	5151	5083	5061
50°	4938	4896	4863
55°	4707	4707	4633
60°	4419	4504	4346
65°	4045	4246	3945
70°	3566	3909	3472
75°	3044	3497	2962
80°	2359	2943	2391
85°	1524	2265	2011



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.7	1.4
10°-20°	174.2	4.1
20°-30°	258.3	6.1
30°-40°	302.3	7.1
40°-50°	300.9	7.1
50°-60°	259.9	6.1
60°-70°	187.1	4.4
70°-80°	98.1	2.3
80°-90°	25.3	0.6
90°-100°	187.4	4.4
100°-110°	515.5	12.1
110°-120°	532.1	12.5
120°-130°	426.3	10.0
130°-140°	334.8	7.9
140°-150°	256.6	6.0
150°-160°	184.5	4.3
160°-170°	112.8	2.7
170°-180°	38.0	0.9
0°-30°	494.2	11.6
0°-40°	796.5	18.7
0°-60°	1357.3	31.9
0°-90°	1667.8	39.2
90°-120°	1235.0	29.0
90°-150°	2252.7	52.9
90°-180°	2588.0	60.8
0°-180°	4255.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	655	655	655	655	655	
5°	657	650	652	650	649	62
15°	625	617	618	617	616	176
25°	571	562	561	558	559	263
35°	491	484	484	480	481	307
45°	395	391	390	388	388	305
55°	293	292	293	289	288	261
65°	185	191	194	187	181	184
75°	85	93	98	92	83	92
85°	14	19	21	20	19	19
90°	1	3	6	8	8	2
95°	28	102	331	142	90	29
105°	92	142	568	865	807	97
115°	163	199	456	907	1030	161
125°	225	256	413	699	819	201
135°	271	301	402	566	640	209
145°	314	335	396	482	519	197
155°	355	367	393	433	446	163
165°	384	389	395	411	413	108
175°	397	398	396	401	400	38
180°	397	397	397	397	397	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	655.1	655.1	655.1	655.1	655.1
2.5°	658.8	653.4	655.1	653.6	650.5
5°	656.8	649.5	651.6	649.9	648.8
7.5°	650.1	643.4	644.9	643.1	642.4
10°	644.1	637.4	638.9	636.6	635.5
12.5°	637.2	630.0	631.6	629.2	628.6
15°	625.1	617.2	618.2	617.0	615.9
17.5°	611.0	603.0	603.2	601.3	601.1
20°	600.8	592.4	591.6	589.3	590.5
22.5°	589.8	580.9	580.1	576.9	578.5
25°	571.4	561.8	561.0	557.6	559.3
27.5°	550.2	540.7	540.7	535.9	537.7
30°	534.5	525.4	526.4	520.7	522.9
32.5°	517.9	509.7	510.2	504.5	506.8
35°	491.2	484.4	484.3	479.7	481.4
37.5°	463.9	458.0	457.0	454.4	454.8
40°	445.0	439.9	438.1	436.4	436.4
42.5°	425.2	420.5	418.7	417.4	417.0
45°	394.8	391.4	389.6	388.4	387.9
47.5°	364.8	361.6	360.0	359.2	358.7
50°	344.0	341.7	341.1	339.4	338.8
52.5°	323.2	321.9	321.3	319.1	318.5
55°	292.6	292.1	292.6	288.6	288.0
57.5°	260.8	261.7	263.5	258.1	256.7
60°	239.5	241.8	244.1	237.7	235.5
62.5°	217.8	221.4	224.8	217.4	214.3
65°	185.3	190.9	194.5	186.9	180.7
67.5°	153.9	160.9	165.2	157.0	150.0
70°	132.2	140.1	144.9	136.6	128.7
72.5°	113.2	122.0	125.9	118.1	110.2
75°	85.4	93.3	98.1	91.6	83.1
77.5°	60.6	68.1	72.0	66.3	59.3
80°	44.4	52.3	55.4	50.7	45.0
82.5°	31.5	38.1	40.2	37.3	33.5
85°	14.4	18.9	21.4	20.2	19.0
87.5°	3.9	7.5	10.0	10.3	10.8
90°	0.8	3.3	5.9	7.6	7.6
92.5°	11.7	49.8	86.4	33.2	27.2
95°	27.9	102.3	331.3	141.7	90.4
97.5°	45.5	113.4	505.6	389.6	274.9
100°	58.3	120.3	560.4	565.6	461.5
102.5°	70.5	128.5	574.6	701.8	606.2
105°	92.1	141.7	568.0	865.1	807.2
107.5°	112.8	158.0	535.7	945.1	962.2
110°	127.6	169.0	511.4	964.9	1024.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	141.2	181.2	487.0	952.1	1042.7
115°	163.1	198.7	455.6	907.2	1029.5
117.5°	184.1	216.8	435.6	844.2	982.5
120°	196.9	228.4	426.9	796.9	939.9
122.5°	208.4	239.8	420.8	755.5	891.2
125°	224.8	256.2	413.3	699.2	819.1
127.5°	240.4	270.3	408.4	652.2	757.4
130°	248.5	279.1	405.7	624.3	720.2
132.5°	258.0	288.6	403.7	599.7	686.4
135°	271.3	301.1	401.5	565.5	639.9
137.5°	283.8	311.4	399.6	537.8	599.1
140°	293.3	318.9	399.0	519.4	574.8
142.5°	301.4	325.1	397.6	503.0	550.4
145°	313.6	335.1	395.6	481.8	519.0
147.5°	326.6	345.1	394.6	463.0	492.8
150°	334.7	351.3	393.9	452.7	475.9
152.5°	342.2	357.4	393.2	443.9	463.0
155°	355.0	366.6	393.0	433.1	445.5
157.5°	364.3	373.7	393.0	424.2	432.8
160°	371.1	378.5	393.0	419.4	426.0
162.5°	376.5	382.6	393.7	415.3	420.6
165°	383.7	388.7	394.7	410.9	413.3
167.5°	388.8	392.6	395.6	407.1	407.8
170°	392.2	394.7	395.6	405.7	405.7
172.5°	394.9	396.1	395.6	403.7	403.0
175°	397.3	398.1	395.6	400.6	399.8
177.5°	397.9	397.9	395.2	399.3	397.9
180°	397.3	397.3	397.3	397.3	397.3

(END OF REPORT)