

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: P564638

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

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564638
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, 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-940-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

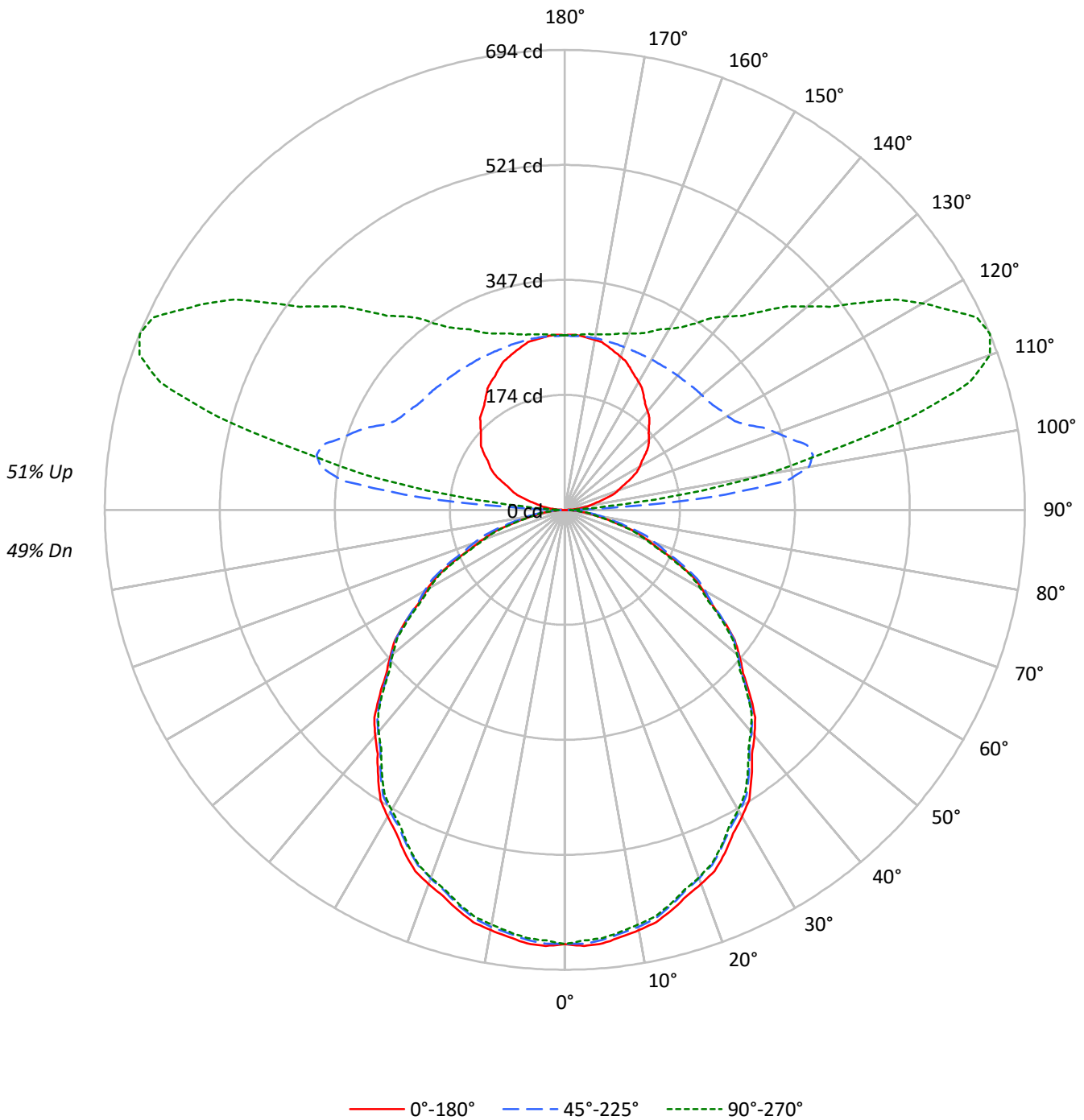
Lumens per Lamp: N/A
Luminaire Lumens: 3389.8 lumens
Efficiency: N/A
Efficacy: 118.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 28.5
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	99	99	99	99	83	83	83	69	69	69	55	55	55	49
1	98	93	90	86	90	86	83	80	73	70	68	60	59	57	49	48	47	42
2	89	82	76	70	82	75	70	66	64	60	57	53	50	48	43	41	40	35
3	81	72	65	59	75	66	60	55	56	52	48	47	44	41	38	36	34	30
4	74	64	56	50	68	59	52	47	50	45	41	42	38	35	34	32	29	26
5	68	57	49	43	63	53	45	40	45	39	35	38	33	30	31	28	25	22
6	63	51	43	37	58	47	40	35	40	35	31	34	30	26	28	25	22	19
7	58	46	38	32	53	43	36	31	37	31	27	31	27	23	26	22	20	17
8	54	42	34	29	50	39	32	27	33	28	24	28	24	21	24	20	18	15
9	50	38	31	26	46	35	29	24	31	25	21	26	22	19	22	19	16	14
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	15	13

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	1.8
10°-20°	174.2	5.1
20°-30°	258.3	7.6
30°-40°	302.3	8.9
40°-50°	300.9	8.9
50°-60°	259.9	7.7
60°-70°	187.1	5.5
70°-80°	98.1	2.9
80°-90°	25.3	0.7
90°-100°	126.6	3.7
100°-110°	343.9	10.1
110°-120°	353.6	10.4
120°-130°	282.7	8.3
130°-140°	222.2	6.6
140°-150°	170.3	5.0
150°-160°	122.5	3.6
160°-170°	74.9	2.2
170°-180°	25.2	0.7
0°-30°	494.2	14.6
0°-40°	796.5	23.5
0°-60°	1357.3	40.0
0°-90°	1667.8	49.2
90°-120°	824.1	24.3
90°-150°	1499.3	44.2
90°-180°	1722.0	50.8
0°-180°	3389.8	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°	19	69	220	96	64	20
105°	61	95	378	576	542	65
115°	108	132	303	602	686	107
125°	149	170	274	462	544	133
135°	180	200	266	376	424	139
145°	208	223	263	319	343	130
155°	235	243	261	287	295	108
165°	254	258	262	273	274	72
175°	264	265	263	266	265	25
180°	264	264	264	264	264	

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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°	7.6	34.7	60.2	25.9	21.9
95°	18.7	69.2	220.5	96.0	64.4
97.5°	30.9	76.5	338.0	263.0	184.7
100°	39.0	81.3	374.0	379.1	306.1
102.5°	47.1	86.1	383.5	468.8	404.5
105°	61.1	95.1	378.2	575.9	541.9
107.5°	75.5	105.5	356.3	631.1	640.6
110°	85.6	113.0	340.1	642.0	682.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	94.5	120.5	323.8	633.0	694.2
115°	108.5	131.8	302.7	602.3	686.0
117.5°	121.8	144.0	289.3	558.8	653.1
120°	130.6	152.2	283.2	529.6	623.3
122.5°	138.1	159.6	279.2	500.3	590.7
125°	149.2	170.0	273.9	461.5	544.4
127.5°	159.3	179.8	271.0	432.1	503.2
130°	165.4	185.3	269.7	413.6	477.4
132.5°	171.5	191.4	268.3	397.8	454.4
135°	179.8	199.7	266.3	375.9	424.0
137.5°	188.8	206.8	265.3	356.6	397.0
140°	194.2	211.6	264.6	344.3	380.8
142.5°	199.6	215.7	263.9	334.6	365.2
145°	207.8	222.7	262.9	319.4	343.4
147.5°	216.9	229.7	262.0	307.4	326.3
150°	223.0	233.8	262.0	300.5	315.5
152.5°	227.8	237.2	261.4	294.4	306.6
155°	234.9	243.2	261.2	286.8	295.1
157.5°	241.9	248.3	261.2	281.7	288.0
160°	245.9	251.7	261.2	278.3	283.2
162.5°	250.0	254.5	261.9	275.5	279.2
165°	254.4	257.7	262.0	273.1	273.9
167.5°	259.0	260.6	262.9	270.2	270.9
170°	260.3	262.0	262.9	268.8	268.8
172.5°	261.7	262.7	262.9	267.5	267.5
175°	263.7	264.6	262.9	266.3	265.4
177.5°	264.4	264.4	262.4	265.1	263.7
180°	263.7	263.7	263.7	263.7	263.7

(END OF REPORT)