

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: P564618

Luminaire Tested: **SQ4-PW1-050U-050D-830-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564618
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-830-1D-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: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

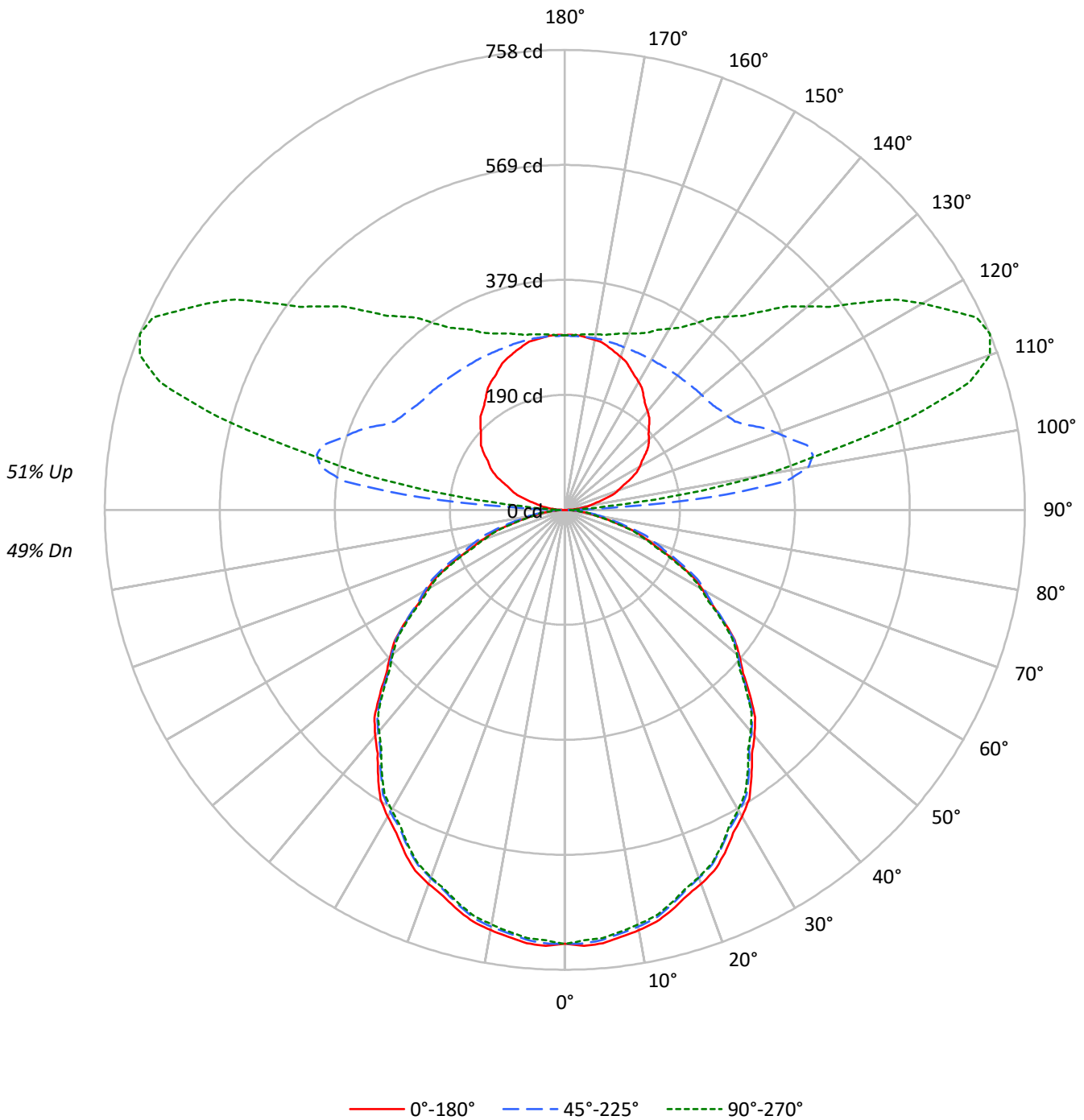
Lumens per Lamp: N/A
Luminaire Lumens: 3701.1 lumens
Efficiency: N/A
Efficacy: 129.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

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



TEST NUMBER: P564618
CATALOG NUMBER: SQ4-PW1-050U-050D-830-1D-UNV-STD-W-4

Luminous Intensity Polar Plot





TEST NUMBER: P564618

CATALOG NUMBER: SQ4-PW1-050U-050D-830-1D-UNV-STD-W-4

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	50	30	10	0	
RCR																						
0	107	107	107	107	99	99	99	99	83	83	83	69	69	69	55	55	55	49				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°	6600	6600	6600
5°	6642	6590	6561
10°	6589	6535	6501
15°	6519	6446	6423
20°	6441	6343	6330
25°	6351	6236	6217
30°	6217	6123	6083
35°	6040	5955	5920
40°	5852	5761	5738
45°	5625	5551	5526
50°	5391	5347	5309
55°	5139	5139	5059
60°	4825	4919	4744
65°	4416	4637	4307
70°	3893	4268	3790
75°	3326	3818	3233
80°	2577	3214	2614
85°	1673	2467	2202



TEST NUMBER: P564618

CATALOG NUMBER: SQ4-PW1-050U-050D-830-1D-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.4	1.8
10°-20°	190.2	5.1
20°-30°	282.1	7.6
30°-40°	330.0	8.9
40°-50°	328.6	8.9
50°-60°	283.7	7.7
60°-70°	204.3	5.5
70°-80°	107.1	2.9
80°-90°	27.7	0.7
90°-100°	138.2	3.7
100°-110°	375.5	10.1
110°-120°	386.1	10.4
120°-130°	308.7	8.3
130°-140°	242.5	6.6
140°-150°	186.0	5.0
150°-160°	133.7	3.6
160°-170°	81.8	2.2
170°-180°	27.6	0.7
0°-30°	539.6	14.6
0°-40°	869.6	23.5
0°-60°	1482.0	40.0
0°-90°	1821.0	49.2
90°-120°	899.8	24.3
90°-150°	1637.0	44.2
90°-180°	1880.0	50.8
0°-180°	3701.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	715	715	715	715	715	
5°	717	709	712	710	708	68
15°	682	674	675	674	672	192
25°	624	613	613	609	611	287
35°	536	529	529	524	526	335
45°	431	427	425	424	424	333
55°	320	319	320	315	314	285
65°	202	208	212	204	197	200
75°	93	102	107	100	91	100
85°	16	21	23	22	21	21
90°	1	4	6	8	8	2
95°	20	76	241	105	70	22
105°	67	104	413	629	592	71
115°	118	144	330	658	749	117
125°	163	186	299	504	594	145
135°	196	218	291	410	463	152
145°	227	243	287	349	375	142
155°	256	266	285	313	322	118
165°	278	281	286	298	299	78
175°	288	289	287	291	290	27
180°	288	288	288	288	288	



TEST NUMBER: P564618

CATALOG NUMBER: SQ4-PW1-050U-050D-830-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	715.3	715.3	715.3	715.3	715.3
2.5°	719.3	713.4	715.3	713.7	710.2
5°	717.2	709.2	711.5	709.6	708.4
7.5°	709.9	702.5	704.2	702.2	701.4
10°	703.3	695.9	697.6	695.1	693.9
12.5°	695.7	687.9	689.6	687.0	686.3
15°	682.5	673.9	674.9	673.7	672.4
17.5°	667.1	658.4	658.6	656.5	656.3
20°	656.0	646.8	646.0	643.5	644.7
22.5°	643.9	634.2	633.4	629.9	631.6
25°	623.9	613.4	612.6	608.8	610.7
27.5°	600.7	590.4	590.4	585.1	587.1
30°	583.6	573.7	574.7	568.5	571.0
32.5°	565.4	556.5	557.1	550.9	553.3
35°	536.3	528.9	528.7	523.7	525.6
37.5°	506.6	500.0	499.0	496.1	496.6
40°	485.9	480.3	478.3	476.4	476.4
42.5°	464.2	459.2	457.2	455.8	455.3
45°	431.1	427.4	425.4	424.1	423.5
47.5°	398.3	394.8	393.1	392.2	391.6
50°	375.6	373.1	372.5	370.5	369.9
52.5°	352.9	351.4	350.8	348.4	347.7
55°	319.5	318.9	319.5	315.1	314.5
57.5°	284.7	285.7	287.8	281.8	280.3
60°	261.5	264.0	266.6	259.6	257.1
62.5°	237.8	241.8	245.4	237.4	233.9
65°	202.3	208.5	212.4	204.0	197.3
67.5°	168.0	175.7	180.4	171.4	163.7
70°	144.3	152.9	158.2	149.2	140.5
72.5°	123.6	133.3	137.5	129.0	120.4
75°	93.3	101.9	107.1	100.0	90.7
77.5°	66.2	74.3	78.6	72.4	64.8
80°	48.5	57.2	60.5	55.3	49.2
82.5°	34.4	41.6	43.9	40.7	36.6
85°	15.8	20.7	23.3	22.0	20.8
87.5°	4.2	8.2	10.9	11.3	11.7
90°	0.9	3.6	6.5	8.3	8.3
92.5°	8.3	37.8	65.7	28.2	23.9
95°	20.4	75.6	240.7	104.8	70.4
97.5°	33.7	83.5	369.1	287.1	201.7
100°	42.6	88.8	408.3	413.9	334.3
102.5°	51.5	94.0	418.7	511.9	441.7
105°	66.7	103.8	413.0	628.8	591.7
107.5°	82.4	115.2	389.1	689.1	699.4
110°	93.5	123.4	371.3	701.0	745.4



TEST NUMBER: P564618

CATALOG NUMBER: SQ4-PW1-050U-050D-830-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	103.1	131.6	353.5	691.1	757.9
115°	118.5	143.9	330.5	657.6	749.1
117.5°	133.0	157.2	315.9	610.1	713.1
120°	142.6	166.1	309.3	578.2	680.5
122.5°	150.7	174.3	304.8	546.3	645.0
125°	163.0	185.6	299.1	503.9	594.4
127.5°	173.9	196.3	295.9	471.8	549.4
130°	180.6	202.3	294.4	451.6	521.3
132.5°	187.2	208.9	293.0	434.4	496.1
135°	196.3	218.0	290.7	410.4	463.0
137.5°	206.1	225.8	289.6	389.3	433.5
140°	212.0	231.0	288.9	375.9	415.7
142.5°	218.0	235.5	288.1	365.4	398.7
145°	226.8	243.1	287.0	348.7	375.0
147.5°	236.8	250.8	286.1	335.6	356.3
150°	243.5	255.3	286.1	328.1	344.4
152.5°	248.7	259.0	285.4	321.4	334.8
155°	256.5	265.5	285.2	313.2	322.2
157.5°	264.1	271.1	285.2	307.6	314.4
160°	268.5	274.9	285.2	303.8	309.3
162.5°	273.0	277.8	285.9	300.8	304.8
165°	277.8	281.4	286.1	298.2	299.1
167.5°	282.8	284.6	287.0	295.0	295.7
170°	284.3	286.1	287.0	293.5	293.5
172.5°	285.7	286.8	287.0	292.0	292.0
175°	288.0	288.9	287.0	290.7	289.8
177.5°	288.7	288.7	286.5	289.4	288.0
180°	288.0	288.0	288.0	288.0	288.0

(END OF REPORT)