

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: P564542

Luminaire Tested: **SQ4-PW1-025U-050D-940-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564542
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-940-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

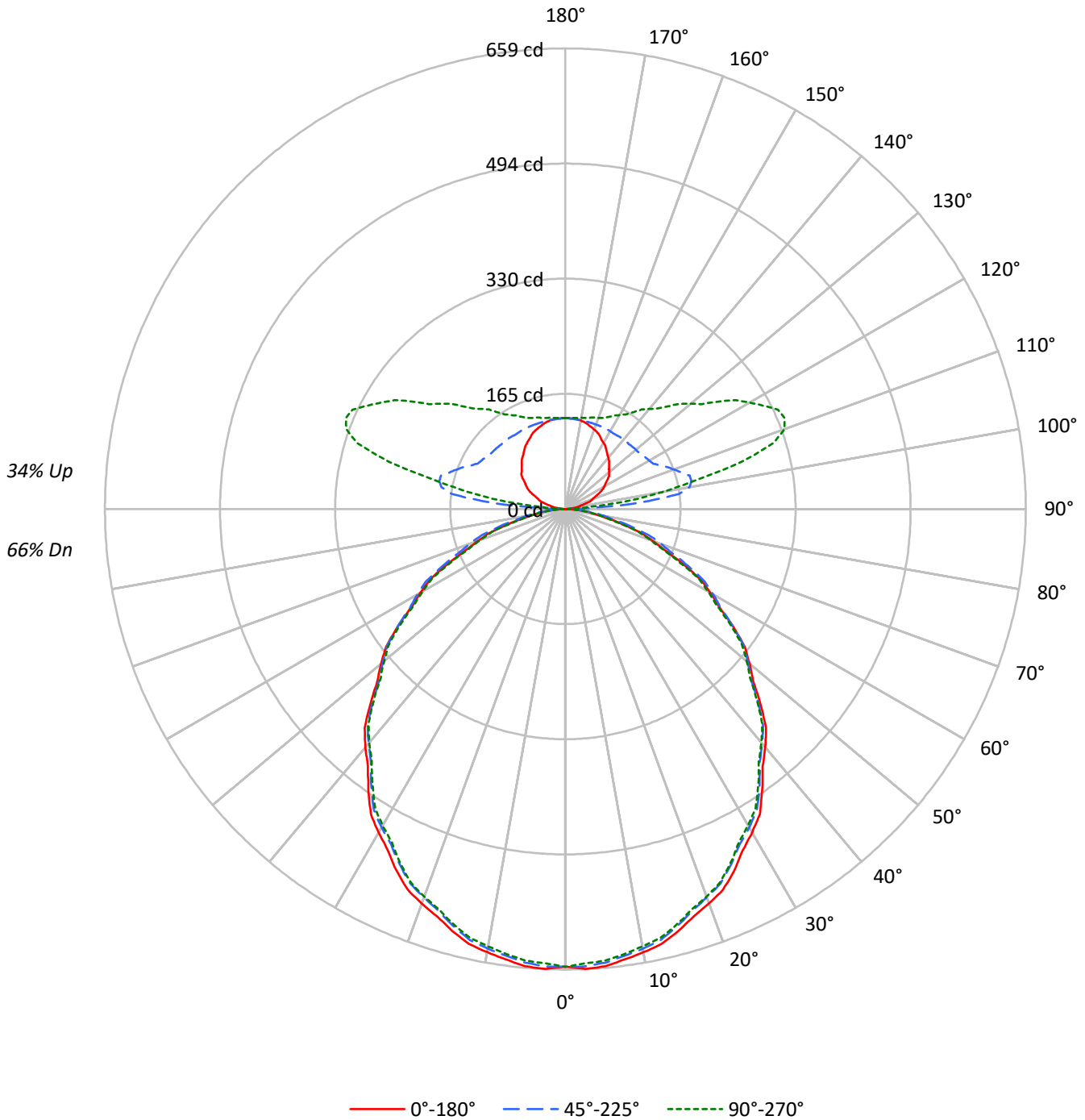
Lumens per Lamp: N/A
Luminaire Lumens: 2510.9 lumens
Efficiency: N/A
Efficacy: 113.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 22.1
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	50	30	10	0	
RCR																						
0	111	111	111	111	105	105	105	105	92	92	92	81	81	81	71	71	71	66				
1	102	97	93	90	96	92	88	85	81	79	76	72	70	68	63	62	60	56				
2	93	85	79	74	87	80	75	70	71	67	63	63	60	57	56	53	51	47				
3	85	75	67	61	79	71	64	59	63	58	53	56	52	48	49	46	44	40				
4	77	66	58	52	73	63	56	50	56	50	46	50	45	42	44	41	38	34				
5	71	59	51	45	67	56	49	43	50	44	40	45	40	36	40	36	33	30				
6	66	53	45	39	62	51	43	38	45	39	35	41	36	32	36	32	29	26				
7	61	48	40	34	57	46	38	33	41	35	31	37	32	28	33	29	26	23				
8	57	44	36	30	53	42	34	29	38	32	27	34	29	25	30	26	23	21				
9	53	40	32	27	50	38	31	26	35	29	25	31	26	23	28	24	21	19				
10	49	37	30	25	46	35	28	24	32	26	22	29	24	21	26	22	19	17				

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	2.5
10°-20°	174.2	6.9
20°-30°	258.3	10.3
30°-40°	302.3	12.0
40°-50°	300.9	12.0
50°-60°	259.9	10.3
60°-70°	187.1	7.5
70°-80°	98.1	3.9
80°-90°	25.0	1.0
90°-100°	63.4	2.5
100°-110°	166.7	6.6
110°-120°	172.9	6.9
120°-130°	138.7	5.5
130°-140°	108.8	4.3
140°-150°	83.5	3.3
150°-160°	60.2	2.4
160°-170°	36.8	1.5
170°-180°	12.4	0.5
0°-30°	494.2	19.7
0°-40°	796.5	31.7
0°-60°	1357.3	54.1
0°-90°	1667.5	66.4
90°-120°	403.0	16.1
90°-150°	734.0	29.2
90°-180°	843.0	33.6
0°-180°	2510.9	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	2	7	3	3	1
95°	8	33	109	56	38	9
105°	30	46	184	280	261	32
115°	53	65	148	295	336	53
125°	74	83	134	227	268	66
135°	88	97	130	183	208	68
145°	103	109	128	156	168	64
155°	116	119	128	141	145	53
165°	125	127	128	134	135	35
175°	130	130	129	131	131	12
180°	130	130	130	130	130	

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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	7.3	10.1	9.5	9.9
90°	0.8	2.5	6.7	3.3	3.3
92.5°	3.5	16.9	37.4	16.5	10.7
95°	8.3	32.8	109.3	56.3	38.4
97.5°	14.5	36.0	163.5	130.0	95.8
100°	19.2	38.8	180.2	182.6	141.8
102.5°	23.2	41.5	184.8	227.4	192.5
105°	30.0	45.5	184.3	279.8	261.1
107.5°	37.0	51.4	173.8	307.1	311.6
110°	41.7	54.8	165.2	314.1	333.7

TEST NUMBER: P564542

CATALOG NUMBER: SQ4-PW1-025U-050D-940-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	46.4	58.8	157.2	309.6	339.7
115°	53.4	64.8	147.6	294.6	336.2
117.5°	60.2	70.7	141.1	273.6	319.8
120°	64.2	74.0	138.5	259.6	304.5
122.5°	68.2	78.0	136.5	245.6	289.8
125°	74.2	83.2	134.3	227.0	267.8
127.5°	79.1	88.2	132.5	212.0	246.4
130°	81.7	91.5	131.8	202.6	234.4
132.5°	84.4	94.2	131.1	194.5	223.0
135°	88.4	97.4	130.1	183.2	207.7
137.5°	92.6	101.4	130.0	174.8	194.9
140°	95.9	104.1	129.3	168.1	186.8
142.5°	98.6	106.1	129.3	163.4	179.5
145°	102.6	109.1	128.5	156.3	168.5
147.5°	106.6	113.0	128.5	150.4	160.5
150°	109.3	115.0	128.5	147.0	155.1
152.5°	111.9	116.3	128.5	144.3	150.5
155°	115.9	119.2	128.5	141.1	145.1
157.5°	118.9	122.0	128.5	138.2	141.1
160°	120.9	123.4	128.5	136.8	138.5
162.5°	123.0	124.7	128.5	135.5	137.1
165°	125.1	126.8	128.5	133.5	135.1
167.5°	127.1	127.9	129.3	132.6	133.3
170°	128.5	129.3	129.3	132.6	132.6
172.5°	129.1	129.3	129.3	131.9	131.3
175°	130.1	130.1	129.3	131.0	131.0
177.5°	130.1	130.1	129.5	130.8	130.1
180°	130.1	130.1	130.1	130.1	130.1

(END OF REPORT)