

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: P562143

Luminaire Tested: **SQ4-PW1-025U-050D-92765-1D-UNV-STD-W-4 (3500K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562143
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-PW1-025U-050D-92765-1D-UNV-STD-W-4 (3500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

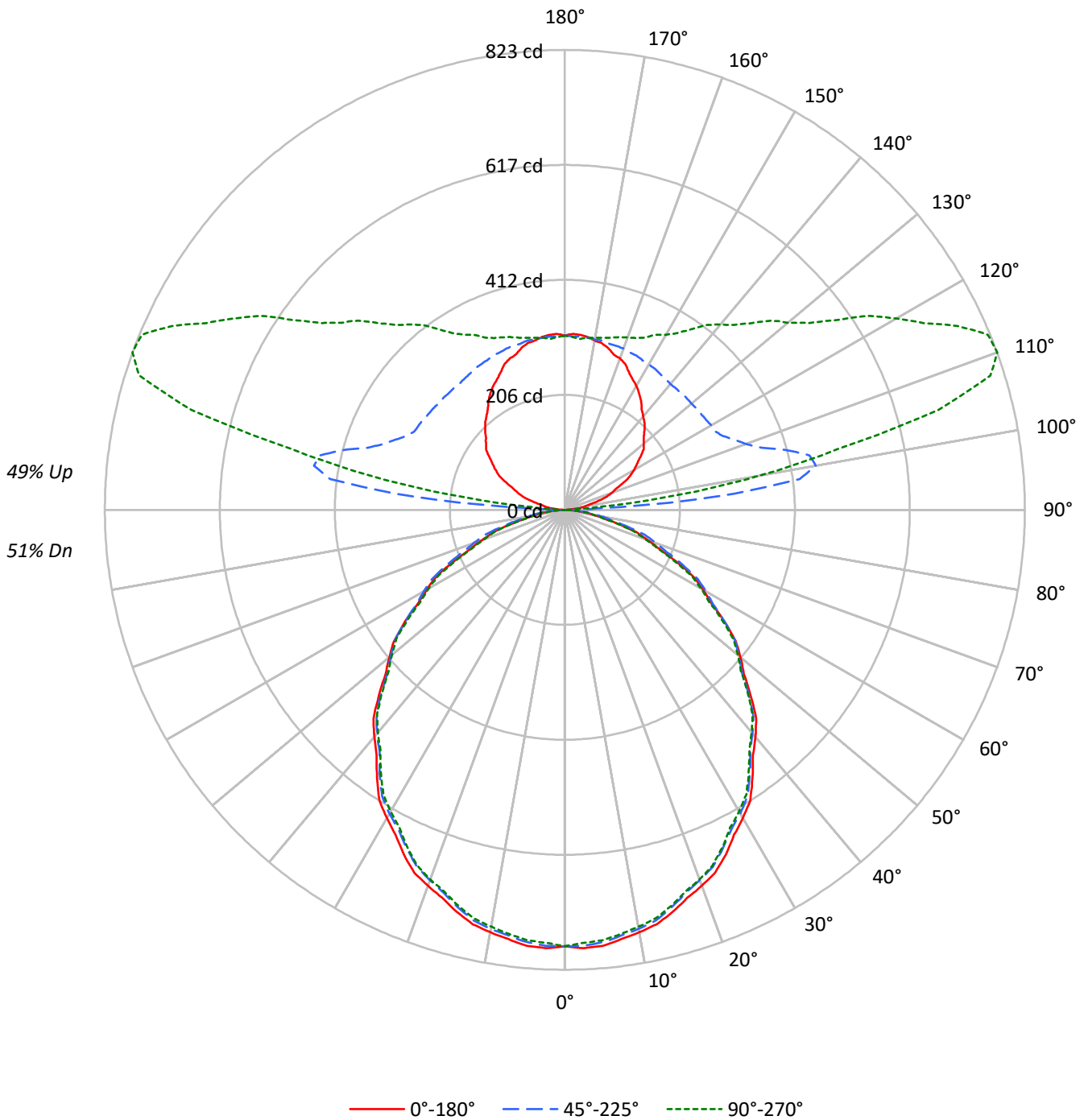
Lumens per Lamp: N/A
Luminaire Lumens: 3923.3 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 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	50	30	10	0	
RCR																						
0	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57	51				
1	98	94	90	86	90	87	83	80	74	71	69	61	60	58	50	49	48	43				
2	89	82	76	71	82	76	71	66	65	61	57	54	51	49	44	42	41	36				
3	82	72	65	59	75	67	60	55	57	52	48	48	44	41	39	37	35	31				
4	75	64	56	50	69	59	52	47	51	45	41	43	39	35	35	32	30	26				
5	68	57	49	43	63	53	46	40	45	40	35	38	34	31	32	29	26	23				
6	63	51	43	37	58	48	40	35	41	35	31	35	30	27	29	26	23	20				
7	58	46	38	33	54	43	36	31	37	31	27	31	27	24	26	23	20	18				
8	54	42	34	29	50	39	32	27	34	28	24	29	24	21	24	21	18	16				
9	50	38	31	26	47	36	29	24	31	26	22	27	22	19	22	19	17	14				
10	47	35	28	23	44	33	26	22	29	23	20	24	20	17	21	17	15	13				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7204	7204	7204
5°	7251	7193	7161
10°	7192	7134	7096
15°	7116	7038	7011
20°	7031	6923	6910
25°	6933	6807	6786
30°	6786	6684	6640
35°	6593	6501	6462
40°	6388	6288	6264
45°	6139	6059	6032
50°	5885	5836	5796
55°	5611	5611	5522
60°	5268	5370	5180
65°	4820	5060	4700
70°	4249	4659	4138
75°	3629	4167	3533
80°	2816	3507	2853
85°	1821	2699	2403



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.5	1.9
10°-20°	207.6	5.3
20°-30°	307.9	7.8
30°-40°	360.3	9.2
40°-50°	358.7	9.1
50°-60°	309.7	7.9
60°-70°	223.0	5.7
70°-80°	116.9	3.0
80°-90°	29.0	0.7
90°-100°	142.1	3.6
100°-110°	404.2	10.3
110°-120°	387.3	9.9
120°-130°	306.6	7.8
130°-140°	246.0	6.3
140°-150°	192.6	4.9
150°-160°	140.9	3.6
160°-170°	87.3	2.2
170°-180°	29.6	0.8
0°-30°	589.0	15.0
0°-40°	949.3	24.2
0°-60°	1617.7	41.2
0°-90°	1986.6	50.6
90°-120°	933.6	23.8
90°-150°	1678.9	42.8
90°-180°	1937.0	49.4
0°-180°	3923.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	781	781	781	781	781	
5°	783	774	777	775	773	74
15°	745	736	737	735	734	210
25°	681	670	669	665	667	313
35°	585	577	577	572	574	366
45°	470	466	464	463	462	363
55°	349	348	349	344	343	311
65°	221	228	232	223	215	219
75°	102	111	117	109	99	109
85°	17	23	26	24	23	23
90°	0	0	0	0	0	1
95°	15	61	275	95	59	18
105°	63	95	412	728	692	66
115°	117	141	312	662	777	115
125°	165	183	298	495	592	147
135°	202	218	295	418	472	156
145°	238	250	297	362	394	148
155°	272	278	304	327	340	126
165°	300	301	308	314	319	84
175°	314	312	311	309	307	30
180°	312	312	312	312	312	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	780.8	780.8	780.8	780.8	780.8
2.5°	785.2	778.7	780.8	779.1	775.3
5°	782.9	774.1	776.7	774.6	773.2
7.5°	774.9	766.8	768.7	766.5	765.7
10°	767.7	759.7	761.5	758.8	757.4
12.5°	759.5	750.9	752.7	750.0	749.2
15°	745.0	735.6	736.8	735.4	734.0
17.5°	728.2	718.7	718.9	716.7	716.4
20°	716.1	706.0	705.1	702.4	703.8
22.5°	702.9	692.3	691.4	687.6	689.4
25°	681.0	669.6	668.7	664.6	666.6
27.5°	655.7	644.4	644.5	638.7	640.9
30°	637.0	626.3	627.4	620.6	623.3
32.5°	617.2	607.5	608.1	601.3	604.0
35°	585.4	577.4	577.2	571.7	573.7
37.5°	553.0	545.8	544.7	541.5	542.1
40°	530.4	524.3	522.1	520.1	520.1
42.5°	506.7	501.2	499.0	497.5	497.0
45°	470.5	466.5	464.4	463.0	462.3
47.5°	434.8	431.0	429.1	428.2	427.5
50°	410.0	407.3	406.6	404.5	403.8
52.5°	385.2	383.6	382.9	380.3	379.6
55°	348.8	348.1	348.8	343.9	343.3
57.5°	310.8	311.9	314.1	307.6	306.0
60°	285.5	288.2	291.0	283.4	280.7
62.5°	259.6	263.9	267.9	259.1	255.4
65°	220.8	227.6	231.8	222.7	215.3
67.5°	183.4	191.7	196.9	187.1	178.7
70°	157.5	167.0	172.7	162.8	153.4
72.5°	135.0	145.5	150.1	140.8	131.4
75°	101.8	111.2	116.9	109.2	99.1
77.5°	72.2	81.1	85.9	79.1	70.7
80°	53.0	62.4	66.0	60.4	53.7
82.5°	37.6	45.4	47.9	44.5	39.9
85°	17.2	22.6	25.5	24.0	22.7
87.5°	4.4	8.2	10.5	10.5	11.0
90°	0.0	0.0	0.0	0.0	0.0
92.5°	4.7	25.1	58.3	17.0	12.8
95°	15.4	61.2	275.0	95.2	58.7
97.5°	28.3	71.7	423.6	303.1	207.7
100°	37.3	77.9	455.8	461.7	355.7
102.5°	47.3	84.6	448.7	591.0	498.4
105°	62.8	95.3	412.0	727.7	691.7
107.5°	78.6	107.7	369.0	766.2	798.2
110°	89.5	116.7	344.4	751.5	823.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	99.9	125.8	327.8	716.6	819.1
115°	116.8	141.1	312.4	661.8	777.1
117.5°	131.6	154.4	303.3	601.8	724.0
120°	143.4	162.6	302.3	567.6	684.6
122.5°	152.9	172.1	299.9	537.5	646.2
125°	164.8	182.8	298.2	494.8	591.6
127.5°	177.7	194.5	297.2	469.3	549.0
130°	184.3	201.2	295.8	451.5	521.0
132.5°	191.5	207.8	295.8	437.6	501.6
135°	201.5	218.3	294.6	417.9	472.4
137.5°	211.0	227.4	294.5	401.3	448.4
140°	218.1	234.9	294.0	387.5	432.7
142.5°	226.2	240.2	295.4	376.5	417.1
145°	237.7	249.9	297.0	361.7	394.2
147.5°	247.5	259.4	299.6	346.8	374.9
150°	256.1	264.2	300.5	341.9	361.6
152.5°	262.7	271.3	301.5	335.2	353.5
155°	271.5	277.9	304.1	326.9	340.2
157.5°	282.4	286.2	304.7	323.1	332.7
160°	288.1	291.0	307.0	320.3	328.4
162.5°	291.4	294.8	307.5	317.9	324.1
165°	299.9	301.1	307.6	314.3	318.9
167.5°	305.7	304.7	310.4	313.4	315.2
170°	307.6	307.1	309.4	310.1	312.4
172.5°	311.9	309.9	310.8	309.1	311.0
175°	314.2	312.4	311.2	309.4	307.0
177.5°	315.1	312.3	310.8	309.0	309.4
180°	311.8	311.8	311.8	311.8	311.8

(END OF REPORT)