

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: P563566

Luminaire Tested: **SQ4-PP3-100U-050D-835-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563566
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-100U-050D-835-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

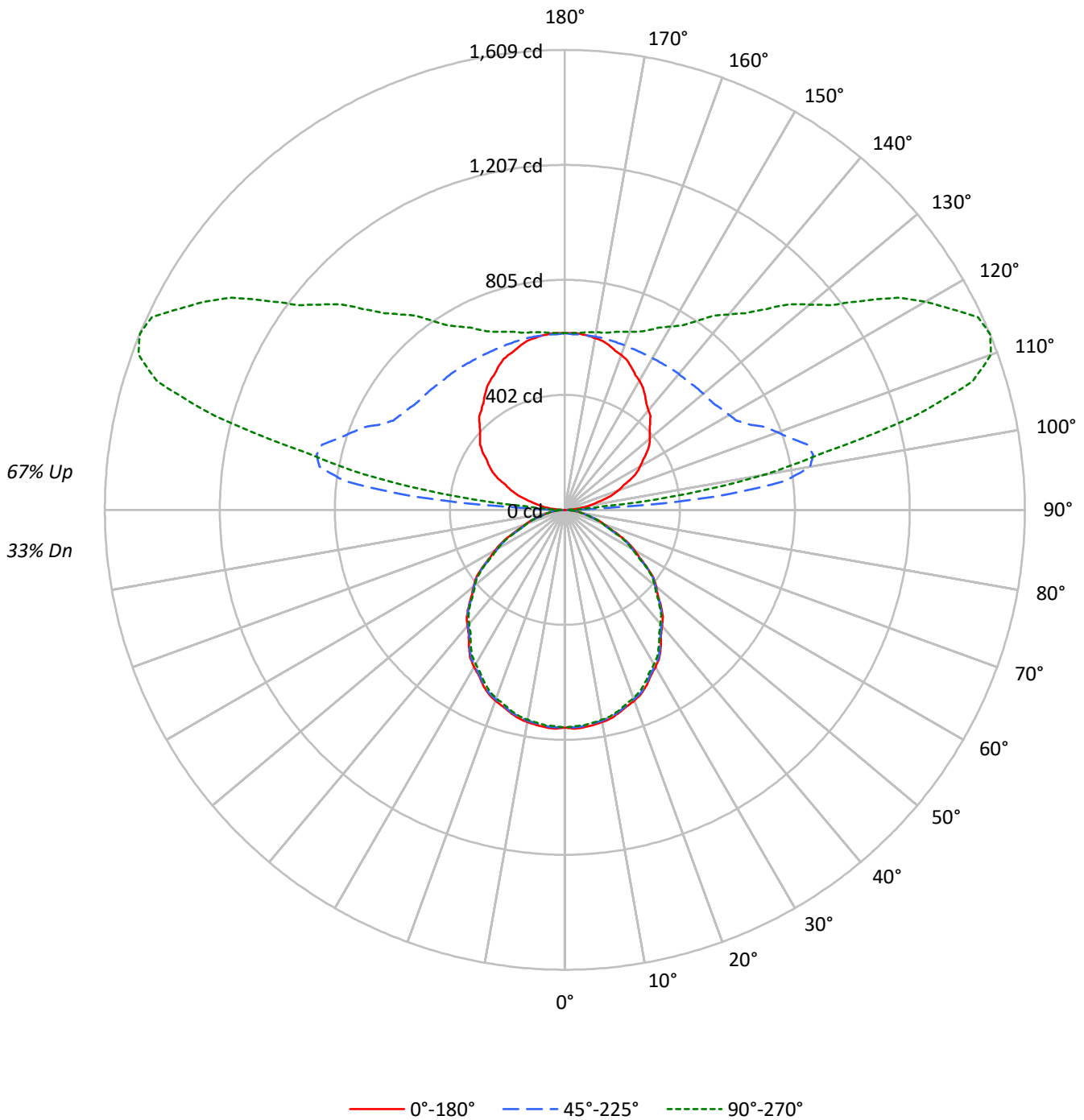
Lumens per Lamp: N/A
Luminaire Lumens: 5966.9 lumens
Efficiency: N/A
Efficacy: 144.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 41.3
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	103	103	103	103	93	93	93	93	74	74	74	56	56	56	40	40	40	33
1	94	90	86	83	85	81	78	75	65	63	61	50	48	47	36	35	34	28
2	86	79	73	68	77	71	66	62	57	53	50	44	41	39	32	30	29	23
3	78	69	62	56	70	63	57	52	50	46	42	39	36	33	28	26	25	20
4	71	61	53	48	64	55	49	44	45	40	36	34	31	29	25	23	21	17
5	66	54	47	41	59	49	43	37	40	35	31	31	27	25	23	20	19	15
6	60	49	41	35	54	44	37	32	36	31	27	28	24	22	20	18	16	13
7	56	44	36	31	50	40	33	28	32	27	24	25	22	19	19	16	15	12
8	52	40	32	27	46	36	30	25	29	24	21	23	20	17	17	15	13	10
9	48	36	29	24	43	33	27	22	27	22	19	21	18	15	16	13	12	9
10	45	33	26	21	40	30	24	20	25	20	17	19	16	14	15	12	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7027	7027	7027
5°	7079	7035	7011
10°	7067	7016	6985
15°	7020	6981	6943
20°	6973	6934	6882
25°	6891	6843	6775
30°	6763	6728	6642
35°	6586	6540	6458
40°	6375	6335	6263
45°	6202	6157	6097
50°	5978	5941	5882
55°	5668	5594	5551
60°	5161	5014	4988
65°	4547	4357	4342
70°	3925	3763	3763
75°	3379	3333	3283
80°	2981	3013	2943
85°	2329	2541	2541



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.0	1.2
10°-20°	205.6	3.4
20°-30°	308.0	5.2
30°-40°	361.3	6.1
40°-50°	362.4	6.1
50°-60°	309.2	5.2
60°-70°	201.6	3.4
70°-80°	101.2	1.7
80°-90°	29.3	0.5
90°-100°	289.5	4.9
100°-110°	799.1	13.4
110°-120°	824.2	13.8
120°-130°	662.3	11.1
130°-140°	520.5	8.7
140°-150°	399.2	6.7
150°-160°	286.9	4.8
160°-170°	175.5	2.9
170°-180°	59.2	1.0
0°-30°	585.7	9.8
0°-40°	947.0	15.9
0°-60°	1618.6	27.1
0°-90°	1950.6	32.7
90°-120°	1912.8	32.1
90°-150°	3494.8	58.6
90°-180°	4016.0	67.3
0°-180°	5966.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	762	762	762	762	762	
5°	764	757	760	757	757	73
15°	735	728	731	728	727	207
25°	677	669	672	666	666	311
35°	585	579	581	574	573	365
45°	475	472	472	467	467	366
55°	352	351	348	346	345	313
65°	208	204	200	198	199	208
75°	95	95	94	93	92	103
85°	22	24	24	24	24	26
90°	2	4	8	9	10	4
95°	42	157	525	216	140	45
105°	142	220	879	1342	1264	152
115°	255	308	708	1402	1594	251
125°	350	398	642	1086	1275	312
135°	421	467	624	880	992	326
145°	489	522	616	749	806	306
155°	551	569	611	672	693	254
165°	596	604	614	638	643	168
175°	618	619	615	624	622	59
180°	618	618	618	618	618	

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CATALOG NUMBER: SQ4-PP3-100U-050D-835-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	761.6	761.6	761.6	761.6	761.6
2.5°	766.4	760.2	761.6	760.5	757.4
5°	764.3	757.1	759.6	757.0	757.0
7.5°	759.1	751.3	753.7	751.1	750.9
10°	754.3	746.5	748.9	746.3	745.6
12.5°	747.3	739.5	742.5	739.3	739.2
15°	734.9	727.7	730.9	728.2	726.9
17.5°	720.9	713.1	716.9	713.2	712.6
20°	710.2	702.4	706.2	700.9	700.9
22.5°	697.4	689.6	693.9	687.0	687.0
25°	676.9	669.0	672.2	666.2	665.5
27.5°	652.4	644.7	648.0	641.2	641.1
30°	634.8	627.6	631.5	624.1	623.5
32.5°	615.6	608.9	611.7	604.3	603.7
35°	584.7	578.9	580.7	574.0	573.4
37.5°	552.3	546.3	548.4	542.7	542.4
40°	529.3	525.4	526.0	521.3	520.0
42.5°	508.0	503.5	504.1	499.4	499.2
45°	475.3	472.0	471.9	467.3	467.3
47.5°	440.6	438.1	437.4	433.5	433.3
50°	416.5	414.6	413.9	410.5	409.8
52.5°	391.4	390.5	388.2	385.4	385.3
55°	352.4	351.1	347.8	345.8	345.1
57.5°	310.1	307.5	303.7	300.8	301.3
60°	279.7	277.1	271.7	270.3	270.3
62.5°	250.3	247.2	241.8	239.9	241.0
65°	208.3	204.3	199.6	198.3	198.9
67.5°	170.1	166.6	161.4	161.4	160.9
70°	145.5	143.6	139.5	139.5	139.5
72.5°	123.6	122.7	119.8	119.7	119.2
75°	94.8	94.8	93.5	92.8	92.1
77.5°	71.0	71.3	70.6	69.9	68.8
80°	56.1	57.4	56.7	56.1	55.4
82.5°	42.2	43.5	43.4	42.2	42.1
85°	22.0	24.0	24.0	24.0	24.0
87.5°	6.3	8.7	10.1	10.3	11.1
90°	2.0	3.9	7.9	8.9	9.9
92.5°	17.8	73.9	132.1	48.2	37.6
95°	42.5	156.6	525.2	215.9	140.4
97.5°	70.4	175.4	778.0	599.0	433.8
100°	91.0	186.7	871.3	877.5	713.1
102.5°	110.8	199.5	889.5	1084.2	928.3
105°	142.4	219.8	879.2	1342.3	1264.0
107.5°	176.0	244.9	830.2	1466.8	1495.4
110°	199.8	261.7	792.2	1493.5	1586.4



TEST NUMBER: P563566

CATALOG NUMBER: SQ4-PP3-100U-050D-835-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	221.1	280.7	756.6	1472.4	1609.3
115°	255.2	308.4	708.1	1401.9	1594.3
117.5°	284.8	337.8	676.3	1302.6	1521.5
120°	304.6	356.8	663.6	1235.3	1455.8
122.5°	323.6	373.5	653.3	1172.6	1381.5
125°	350.1	398.5	641.9	1086.3	1274.8
127.5°	372.7	421.0	635.1	1013.3	1175.9
130°	387.7	436.0	632.0	968.6	1116.6
132.5°	401.9	448.0	628.8	931.1	1065.2
135°	421.3	466.8	624.1	879.8	992.0
137.5°	443.1	484.5	621.7	836.7	932.4
140°	454.9	495.6	620.1	808.0	892.1
142.5°	468.4	505.9	618.5	782.4	856.5
145°	488.6	522.4	616.2	749.0	806.0
147.5°	508.0	537.5	614.0	720.8	765.1
150°	522.2	546.4	613.2	704.0	739.8
152.5°	533.3	555.9	612.4	689.6	719.2
155°	550.9	569.3	611.2	672.0	693.3
157.5°	567.1	581.2	611.4	659.2	673.7
160°	576.6	589.2	612.2	652.0	662.6
162.5°	584.5	595.5	613.0	645.6	653.9
165°	596.4	604.1	614.2	638.0	642.9
167.5°	605.5	610.1	615.2	633.4	634.9
170°	610.2	614.1	615.2	631.0	631.0
172.5°	614.2	616.5	615.2	627.8	627.0
175°	618.1	619.1	615.2	624.0	622.1
177.5°	619.7	618.9	615.0	620.5	618.9
180°	618.1	618.1	618.1	618.1	618.1

(END OF REPORT)