

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: P564242

Luminaire Tested: **SQ4-PR1-100U-050D-840-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564242
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PR1-100U-050D-840-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

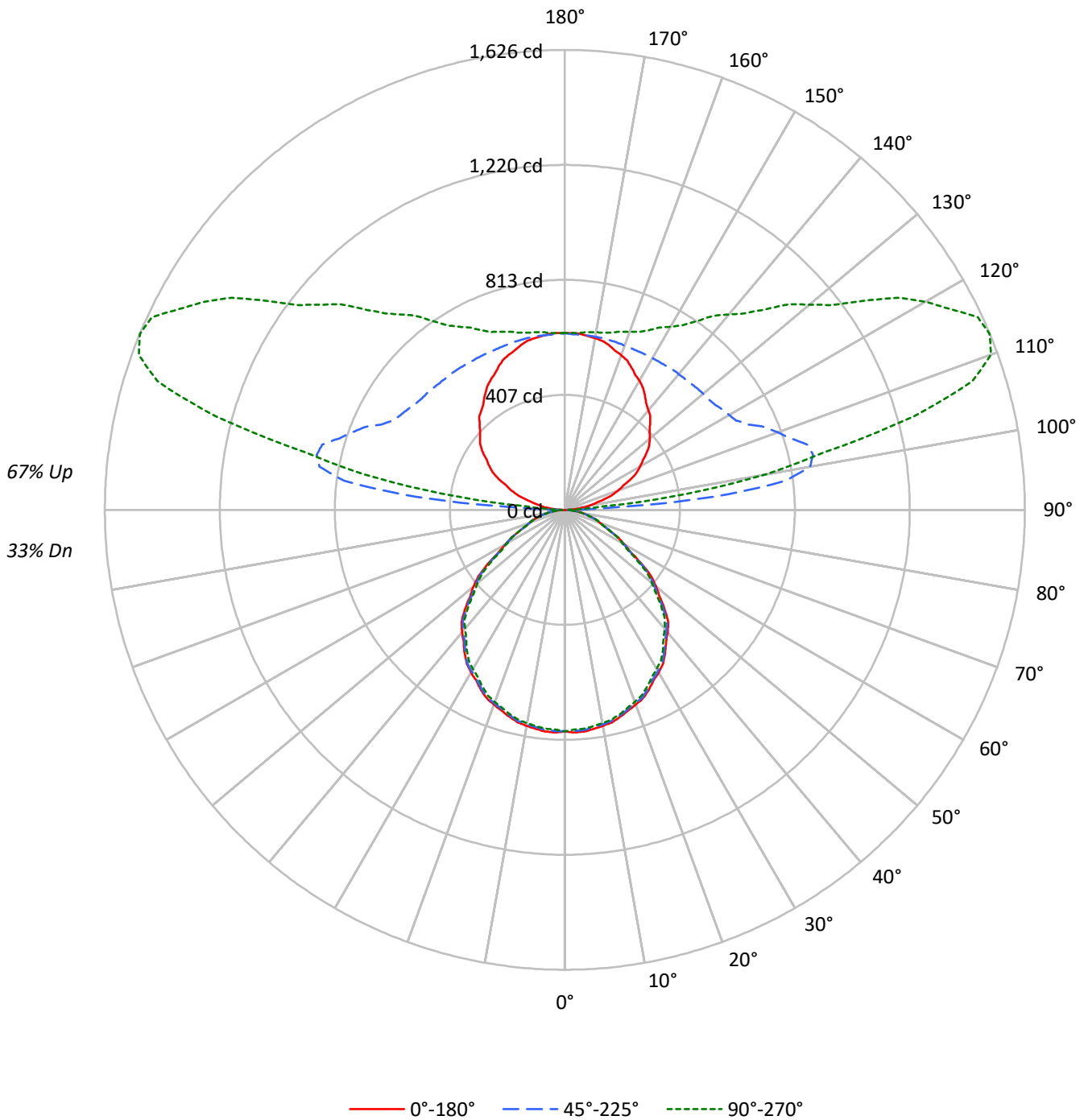
Lumens per Lamp: N/A
Luminaire Lumens: 6015.4 lumens
Efficiency: N/A
Efficacy: 145.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

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	42	40	32	30	29	24
3	78	69	62	57	70	63	57	52	50	46	43	39	36	34	28	26	25	20
4	72	61	54	48	64	56	49	44	45	40	36	35	31	29	25	23	22	17
5	66	55	47	41	59	50	43	38	40	35	31	31	28	25	23	21	19	15
6	60	49	41	35	54	44	38	33	36	31	27	28	25	22	21	18	17	13
7	56	44	36	31	50	40	33	29	33	28	24	25	22	19	19	17	15	12
8	52	40	32	27	47	36	30	25	30	25	21	23	20	17	17	15	13	11
9	48	36	29	24	43	33	27	22	27	22	19	21	18	15	16	14	12	10
10	45	33	26	22	40	30	24	20	25	20	17	20	16	14	15	12	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7224	7224	7224
5°	7289	7232	7195
10°	7265	7215	7177
15°	7233	7189	7150
20°	7198	7151	7098
25°	7146	7099	7016
30°	7070	7020	6918
35°	6965	6904	6805
40°	6806	6734	6611
45°	6529	6414	6283
50°	6040	5895	5779
55°	5273	5152	5044
60°	4443	4405	4318
65°	3842	3858	3827
70°	3528	3547	3547
75°	3390	3390	3415
80°	3188	3225	3188
85°	2572	2858	2858



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.0	1.2
10°-20°	211.8	3.5
20°-30°	319.5	5.3
30°-40°	380.7	6.3
40°-50°	375.3	6.2
50°-60°	286.9	4.8
60°-70°	177.5	3.0
70°-80°	100.8	1.7
80°-90°	32.0	0.5
90°-100°	292.4	4.9
100°-110°	807.2	13.4
110°-120°	832.5	13.8
120°-130°	669.0	11.1
130°-140°	525.7	8.7
140°-150°	403.2	6.7
150°-160°	289.8	4.8
160°-170°	177.2	2.9
170°-180°	59.8	1.0
0°-30°	605.4	10.1
0°-40°	986.1	16.4
0°-60°	1648.3	27.4
0°-90°	1958.6	32.6
90°-120°	1932.1	32.1
90°-150°	3530.0	58.7
90°-180°	4057.0	67.4
0°-180°	6015.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	783	783	783	783	783	
5°	787	778	781	778	777	75
15°	757	749	753	750	749	214
25°	702	694	697	690	689	323
35°	618	611	613	605	604	386
45°	500	494	492	483	482	383
55°	328	322	320	315	314	294
65°	176	175	177	175	175	178
75°	95	95	95	96	96	100
85°	24	26	27	27	27	28
90°	2	4	8	9	10	4
95°	43	158	530	218	142	46
105°	144	222	888	1356	1277	153
115°	258	312	715	1416	1610	253
125°	354	402	648	1097	1288	315
135°	426	472	630	889	1002	329
145°	494	528	622	756	814	309
155°	556	575	617	679	700	256
165°	602	610	620	644	649	170
175°	624	625	621	630	628	59
180°	624	624	624	624	624	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	783.0	783.0	783.0	783.0	783.0
2.5°	787.8	781.0	783.0	781.3	777.6
5°	787.0	778.4	780.9	778.2	776.9
7.5°	780.9	772.5	775.0	772.3	771.5
10°	775.5	767.6	770.1	767.4	766.1
12.5°	769.6	761.2	764.2	760.9	759.6
15°	757.3	749.4	752.6	749.9	748.6
17.5°	743.8	735.4	738.6	735.4	733.7
20°	733.1	725.1	728.3	723.6	722.9
22.5°	721.2	713.3	716.5	710.1	710.0
25°	702.0	693.5	697.3	689.9	689.2
27.5°	679.2	671.3	674.5	666.9	666.2
30°	663.6	655.7	658.9	650.7	649.4
32.5°	645.8	638.4	641.1	633.0	632.2
35°	618.4	611.2	613.0	604.9	604.2
37.5°	587.3	580.7	581.7	572.8	572.1
40°	565.1	558.5	559.1	549.6	548.9
42.5°	540.9	534.3	533.7	524.3	523.6
45°	500.4	493.8	491.6	482.8	481.5
47.5°	454.3	447.7	443.6	436.4	435.5
50°	420.8	414.2	410.7	404.6	402.6
52.5°	384.7	378.1	375.1	369.5	367.5
55°	327.8	322.5	320.3	314.9	313.6
57.5°	273.7	270.1	269.5	264.2	263.7
60°	240.8	238.8	238.7	234.0	234.0
62.5°	212.7	211.2	212.3	209.2	208.7
65°	176.0	174.7	176.7	175.3	175.3
67.5°	147.0	147.0	148.2	147.7	147.7
70°	130.8	130.8	131.5	131.5	131.5
72.5°	116.3	115.7	117.5	117.5	116.9
75°	95.1	95.1	95.1	95.8	95.8
77.5°	74.0	74.2	74.7	74.6	74.0
80°	60.0	60.7	60.7	60.0	60.0
82.5°	46.0	46.7	46.7	46.5	46.0
85°	24.3	25.6	27.0	27.0	27.0
87.5°	7.4	9.9	12.4	12.6	12.2
90°	2.0	4.0	8.0	9.0	10.0
92.5°	18.0	74.6	133.5	48.7	38.0
95°	43.0	158.2	530.5	218.0	141.9
97.5°	71.1	177.2	785.8	605.0	438.1
100°	91.9	188.6	880.1	886.3	720.3
102.5°	111.9	201.6	898.5	1095.1	937.6
105°	143.9	222.0	888.1	1355.8	1276.7
107.5°	177.8	247.4	838.5	1481.5	1510.4
110°	201.8	264.3	800.2	1508.6	1602.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	223.4	283.5	764.2	1487.2	1625.5
115°	257.7	311.5	715.3	1416.0	1610.3
117.5°	287.7	341.2	683.1	1315.7	1536.8
120°	307.7	360.4	670.3	1247.8	1470.5
122.5°	326.9	377.3	659.9	1184.4	1395.4
125°	353.6	402.5	648.3	1097.2	1287.7
127.5°	376.4	425.2	641.5	1023.5	1187.8
130°	391.6	440.4	638.3	978.4	1127.8
132.5°	406.0	452.5	635.1	940.5	1075.9
135°	425.6	471.5	630.3	888.7	1002.0
137.5°	447.5	489.3	628.0	845.1	941.8
140°	459.5	500.5	626.4	816.1	901.1
142.5°	473.1	511.0	624.8	790.3	865.1
145°	493.5	527.7	622.4	756.5	814.2
147.5°	513.1	543.0	620.2	728.1	772.8
150°	527.5	551.9	619.4	711.1	747.2
152.5°	538.6	561.5	618.6	696.6	726.4
155°	556.4	575.0	617.4	678.8	700.3
157.5°	572.8	587.1	617.6	665.8	680.5
160°	582.4	595.1	618.4	658.6	669.3
162.5°	590.4	601.5	619.2	652.1	660.5
165°	602.4	610.2	620.4	644.4	649.3
167.5°	611.6	616.3	621.4	639.8	641.3
170°	616.4	620.3	621.4	637.3	637.3
172.5°	620.4	622.7	621.4	634.1	633.3
175°	624.4	625.3	621.4	630.3	628.4
177.5°	626.0	625.2	621.2	626.7	625.2
180°	624.4	624.4	624.4	624.4	624.4

(END OF REPORT)