

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: P561778

Luminaire Tested: **SQ4-PR1-025U-050D-92765-1D-UNV-STD-W-4 (3000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561778
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, 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-PR1-025U-050D-92765-1D-UNV-STD-W-4 (3000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

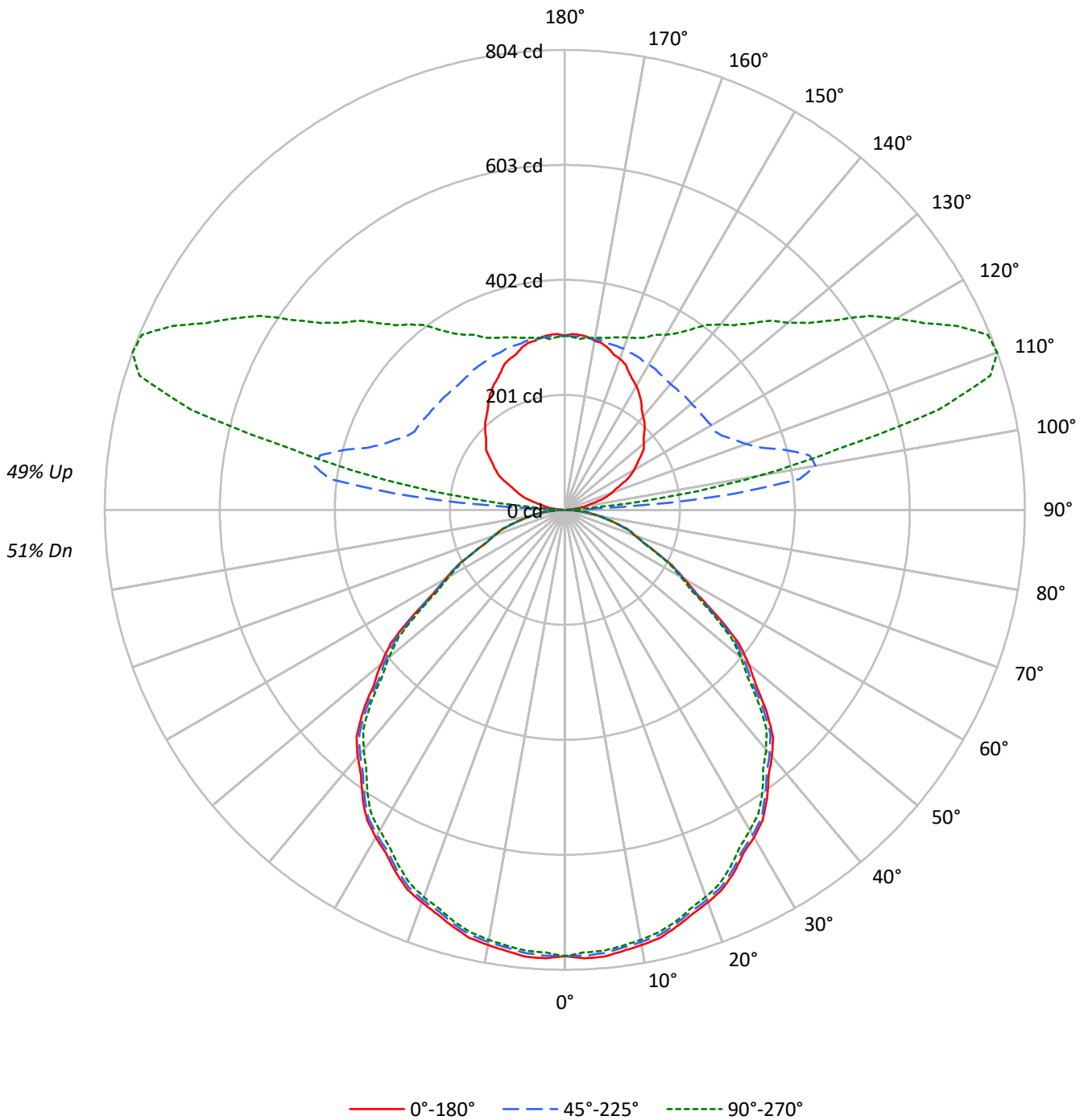
Lumens per Lamp: N/A
Luminaire Lumens: 3841.2 lumens
Efficiency: N/A
Efficacy: 110.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

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	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	87	91	87	84	81	74	72	69	62	60	59	51	50	49	43
2	90	82	76	71	83	76	71	67	65	61	58	55	52	49	45	43	41	37
3	82	73	66	60	75	67	61	56	58	53	49	49	45	42	40	38	36	31
4	75	65	57	51	69	60	53	48	51	46	42	43	39	36	36	33	31	27
5	69	58	50	44	64	54	47	41	46	41	36	39	35	32	33	29	27	24
6	64	52	44	38	59	48	41	36	42	36	32	35	31	28	30	26	24	21
7	59	47	39	33	54	44	37	32	38	32	28	32	28	25	27	24	21	19
8	55	42	35	30	50	40	33	28	34	29	25	29	25	22	25	22	19	17
9	51	39	31	26	47	36	30	25	32	26	22	27	23	20	23	20	17	15
10	48	36	28	24	44	33	27	22	29	24	20	25	21	18	21	18	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7196	7196	7196
5°	7261	7205	7167
10°	7238	7188	7150
15°	7206	7161	7123
20°	7170	7124	7071
25°	7120	7071	6990
30°	7043	6993	6892
35°	6938	6878	6779
40°	6781	6707	6587
45°	6504	6390	6259
50°	6017	5872	5757
55°	5252	5133	5025
60°	4425	4388	4301
65°	3827	3842	3814
70°	3515	3534	3534
75°	3376	3376	3401
80°	3177	3214	3177
85°	2562	2848	2848



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.8	1.9
10°-20°	211.0	5.5
20°-30°	318.3	8.3
30°-40°	379.2	9.9
40°-50°	373.9	9.7
50°-60°	285.8	7.4
60°-70°	176.8	4.6
70°-80°	100.4	2.6
80°-90°	30.6	0.8
90°-100°	138.8	3.6
100°-110°	394.8	10.3
110°-120°	378.2	9.8
120°-130°	299.4	7.8
130°-140°	240.3	6.3
140°-150°	188.1	4.9
150°-160°	137.6	3.6
160°-170°	85.3	2.2
170°-180°	28.9	0.8
0°-30°	603.1	15.7
0°-40°	982.3	25.6
0°-60°	1642.0	42.7
0°-90°	1949.8	50.8
90°-120°	911.8	23.7
90°-150°	1639.5	42.7
90°-180°	1891.0	49.2
0°-180°	3841.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	780	780	780	780	780	
5°	784	776	778	775	774	74
15°	754	747	750	747	746	213
25°	699	691	695	687	687	322
35°	616	609	611	603	602	384
45°	498	492	490	481	480	382
55°	326	321	319	314	312	293
65°	175	174	176	175	175	178
75°	95	95	95	95	95	100
85°	24	26	27	27	27	28
90°	0	0	0	0	0	2
95°	15	60	269	93	57	17
105°	61	93	402	711	676	65
115°	114	138	305	646	759	112
125°	161	178	291	483	578	144
135°	197	213	288	408	461	152
145°	232	244	290	353	385	145
155°	265	271	297	319	332	123
165°	293	294	300	307	311	82
175°	307	305	304	302	300	29
180°	304	304	304	304	304	

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CATALOG NUMBER: SQ4-PR1-025U-050D-92765-1D-UNV-STD-W-4 (3000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	780.0	780.0	780.0	780.0	780.0
2.5°	784.8	778.0	780.0	778.3	774.6
5°	784.0	775.5	778.0	775.2	773.9
7.5°	778.0	769.5	772.0	769.3	768.5
10°	772.6	764.7	767.2	764.5	763.2
12.5°	766.7	758.3	761.3	758.0	756.7
15°	754.4	746.6	749.7	747.0	745.7
17.5°	741.0	732.6	735.8	732.6	730.9
20°	730.3	722.4	725.6	720.8	720.2
22.5°	718.4	710.5	713.7	707.4	707.3
25°	699.4	690.8	694.6	687.2	686.6
27.5°	676.6	668.8	671.9	664.4	663.6
30°	661.1	653.2	656.4	648.3	646.9
32.5°	643.3	636.0	638.6	630.5	629.8
35°	616.0	608.8	610.7	602.6	601.9
37.5°	585.0	578.4	579.5	570.6	570.0
40°	563.0	556.4	556.9	547.5	546.9
42.5°	538.8	532.2	531.7	522.2	521.6
45°	498.5	491.9	489.7	481.0	479.7
47.5°	452.5	446.0	441.9	434.8	433.9
50°	419.2	412.6	409.1	403.0	401.1
52.5°	383.2	376.6	373.7	368.1	366.1
55°	326.5	321.2	319.1	313.7	312.4
57.5°	272.6	269.1	268.5	263.2	262.7
60°	239.8	237.9	237.8	233.1	233.1
62.5°	211.9	210.4	211.5	208.4	207.9
65°	175.3	174.0	176.0	174.7	174.7
67.5°	146.5	146.5	147.7	147.1	147.1
70°	130.3	130.3	131.0	131.0	131.0
72.5°	115.8	115.3	117.0	117.0	116.5
75°	94.7	94.7	94.7	95.4	95.4
77.5°	73.8	73.9	74.4	74.3	73.8
80°	59.8	60.4	60.5	59.8	59.8
82.5°	45.8	46.5	46.5	46.3	45.8
85°	24.2	25.5	26.9	26.9	26.9
87.5°	7.0	9.1	10.7	10.7	10.2
90°	0.0	0.0	0.0	0.0	0.0
92.5°	4.6	24.6	57.0	16.6	12.5
95°	15.1	59.8	268.6	93.0	57.3
97.5°	27.7	70.0	413.7	296.0	202.8
100°	36.5	76.1	445.1	450.9	347.3
102.5°	46.2	82.6	438.2	577.2	486.7
105°	61.4	93.1	402.3	710.6	675.5
107.5°	76.8	105.2	360.4	748.3	779.5
110°	87.4	114.0	336.3	733.9	804.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	97.6	122.8	320.1	699.8	799.9
115°	114.0	137.8	305.1	646.3	758.9
117.5°	128.5	150.8	296.1	587.7	707.0
120°	140.1	158.8	295.2	554.3	668.6
122.5°	149.3	168.0	292.9	524.9	631.1
125°	160.9	178.5	291.2	483.2	577.7
127.5°	173.5	190.0	290.2	458.3	536.1
130°	180.0	196.4	288.9	440.9	508.8
132.5°	187.0	202.9	288.9	427.3	489.8
135°	196.8	213.2	287.7	408.2	461.4
137.5°	206.1	222.0	287.6	391.9	437.9
140°	213.0	229.4	287.1	378.4	422.6
142.5°	220.9	234.6	288.5	367.7	407.3
145°	232.1	244.0	290.0	353.2	384.9
147.5°	241.7	253.3	292.6	338.7	366.1
150°	250.1	258.0	293.5	333.9	353.1
152.5°	256.6	264.9	294.4	327.3	345.2
155°	265.1	271.3	297.0	319.3	332.3
157.5°	275.8	279.5	297.5	315.6	324.9
160°	281.3	284.2	299.9	312.8	320.7
162.5°	284.6	287.9	300.3	310.4	316.5
165°	292.9	294.0	300.4	306.9	311.4
167.5°	298.6	297.6	303.1	306.0	307.8
170°	300.4	299.9	302.2	302.8	305.1
172.5°	304.6	302.7	303.6	301.9	303.7
175°	306.8	305.1	303.9	302.1	299.9
177.5°	307.7	305.0	303.6	301.7	302.2
180°	304.5	304.5	304.5	304.5	304.5

(END OF REPORT)