

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: P523620

Luminaire Tested: **SQ4-PP3-025U-050D-92765-1D-UNV-STD-W-4 (3000K)**

Issue Date: 5/24/2021

Test Information

Test Method: LM-79-2019
Report Number: P523620
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/24/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-025U-050D-92765-1D-UNV-STD-W-4 (3000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM 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

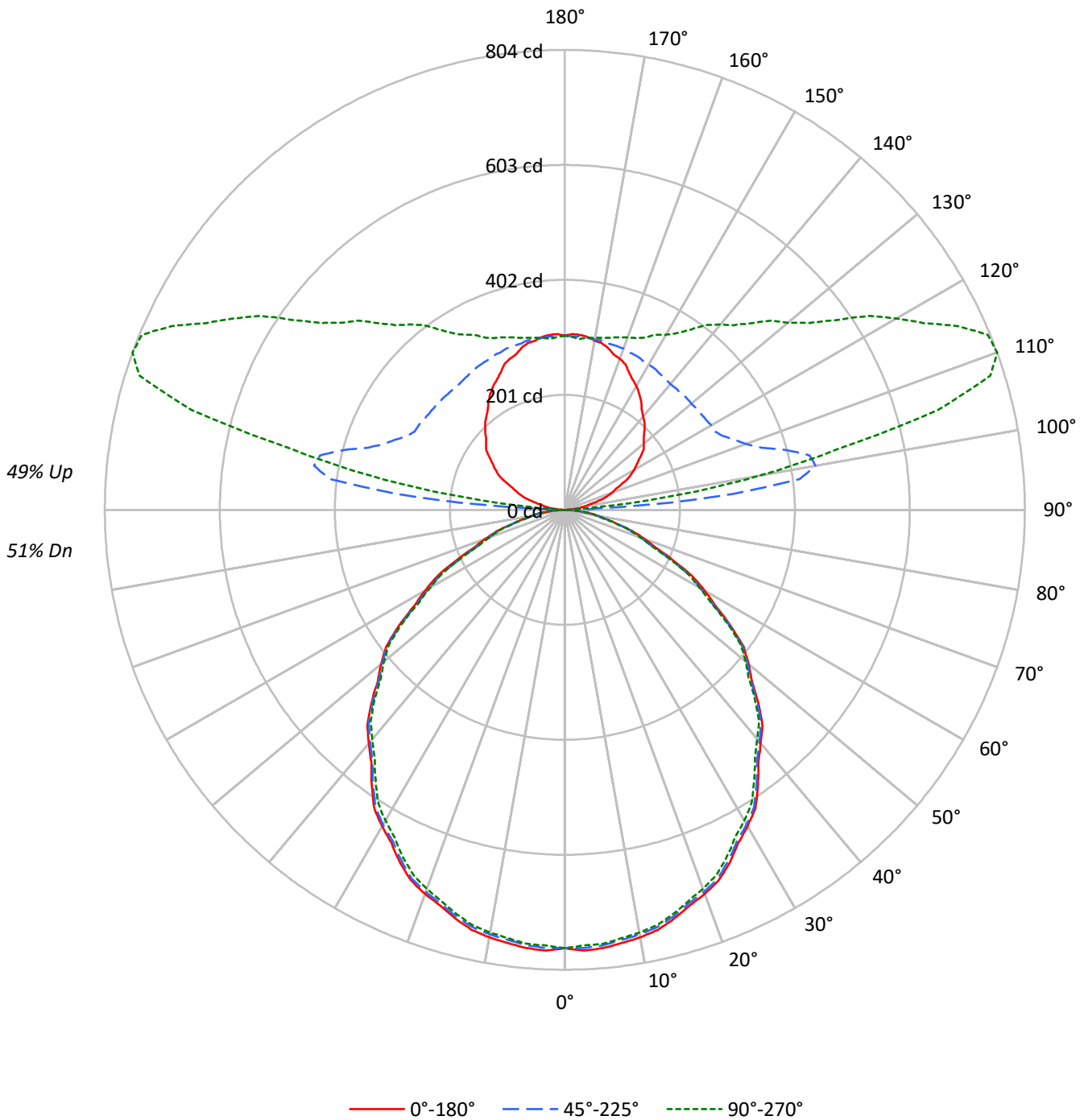
Lumens per Lamp: N/A
Luminaire Lumens: 3852.8 lumens
Efficiency: N/A
Efficacy: 111.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

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	71	69	62	60	59	51	50	49	43
2	90	82	76	71	83	76	71	67	65	61	58	54	52	49	45	43	41	37
3	82	72	65	59	75	67	61	56	57	53	49	48	45	42	40	37	35	31
4	75	64	56	50	69	60	53	47	51	46	42	43	39	36	36	33	30	27
5	69	57	49	43	63	53	46	41	46	40	36	39	34	31	32	29	27	23
6	63	51	43	37	58	48	41	35	41	36	31	35	31	27	29	26	23	21
7	59	46	38	33	54	43	36	31	37	32	28	32	27	24	27	23	21	18
8	54	42	34	29	50	39	32	28	34	28	25	29	25	22	24	21	19	16
9	51	38	31	26	47	36	29	25	31	26	22	27	22	19	23	19	17	15
10	47	35	28	23	44	33	26	22	29	23	20	25	21	18	21	18	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7071	7071	7071
5°	7122	7079	7054
10°	7111	7060	7028
15°	7063	7025	6986
20°	7016	6977	6924
25°	6934	6886	6817
30°	6804	6769	6683
35°	6627	6581	6498
40°	6415	6375	6301
45°	6239	6196	6135
50°	6016	5977	5919
55°	5704	5628	5585
60°	5193	5045	5019
65°	4576	4384	4371
70°	3949	3787	3787
75°	3401	3351	3305
80°	2997	3034	2959
85°	2350	2562	2562



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.5	1.9
10°-20°	206.9	5.4
20°-30°	309.9	8.0
30°-40°	363.5	9.4
40°-50°	364.7	9.5
50°-60°	311.1	8.1
60°-70°	202.9	5.3
70°-80°	101.8	2.6
80°-90°	28.2	0.7
90°-100°	138.8	3.6
100°-110°	394.8	10.2
110°-120°	378.2	9.8
120°-130°	299.4	7.8
130°-140°	240.3	6.2
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°	589.3	15.3
0°-40°	952.8	24.7
0°-60°	1628.6	42.3
0°-90°	1961.4	50.9
90°-120°	911.8	23.7
90°-150°	1639.5	42.6
90°-180°	1891.0	49.1
0°-180°	3852.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	766	766	766	766	766	
5°	769	762	764	762	762	73
15°	740	732	736	733	731	209
25°	681	673	676	670	670	313
35°	588	582	584	578	577	368
45°	478	475	475	470	470	368
55°	355	353	350	348	347	315
65°	210	206	201	200	200	209
75°	95	95	94	93	93	103
85°	22	24	24	24	24	26
90°	0	0	0	0	0	1
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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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	766.4	766.4	766.4	766.4	766.4
2.5°	771.2	764.9	766.4	765.2	762.1
5°	769.0	761.8	764.3	761.6	761.6
7.5°	763.8	755.9	758.4	755.7	755.6
10°	759.0	751.1	753.6	750.9	750.2
12.5°	752.0	744.1	747.1	743.9	743.8
15°	739.5	732.3	735.5	732.7	731.4
17.5°	725.4	717.5	721.4	717.6	717.1
20°	714.6	706.8	710.6	705.2	705.2
22.5°	701.7	693.9	698.2	691.3	691.3
25°	681.1	673.2	676.4	670.3	669.6
27.5°	656.5	648.7	652.0	645.2	645.1
30°	638.7	631.5	635.4	628.0	627.3
32.5°	619.4	612.7	615.5	608.1	607.4
35°	588.4	582.5	584.3	577.6	576.9
37.5°	555.7	549.7	551.8	546.0	545.8
40°	532.6	528.7	529.3	524.5	523.2
42.5°	511.1	506.7	507.2	502.5	502.3
45°	478.2	474.9	474.9	470.2	470.2
47.5°	443.3	440.8	440.1	436.2	436.0
50°	419.1	417.1	416.4	413.0	412.4
52.5°	393.9	392.9	390.6	387.8	387.7
55°	354.6	353.3	349.9	347.9	347.2
57.5°	312.0	309.4	305.6	302.7	303.2
60°	281.4	278.8	273.4	272.0	272.0
62.5°	251.9	248.7	243.3	241.4	242.5
65°	209.6	205.6	200.8	199.5	200.2
67.5°	171.1	167.6	162.4	162.4	161.9
70°	146.4	144.4	140.4	140.4	140.4
72.5°	124.4	123.5	120.5	120.5	120.0
75°	95.4	95.4	94.0	93.3	92.7
77.5°	71.5	71.7	71.1	70.4	69.2
80°	56.4	57.7	57.1	56.4	55.7
82.5°	42.4	43.8	43.7	42.4	42.3
85°	22.2	24.1	24.2	24.2	24.2
87.5°	5.9	8.0	8.6	8.6	9.1
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)