

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: P562355

Luminaire Tested: **SQ4-PW1-100U-050D-92765-1D-UNV-STD-W-4 (5700K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562355  
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-PW1-100U-050D-92765-1D-UNV-STD-W-4 (5700K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

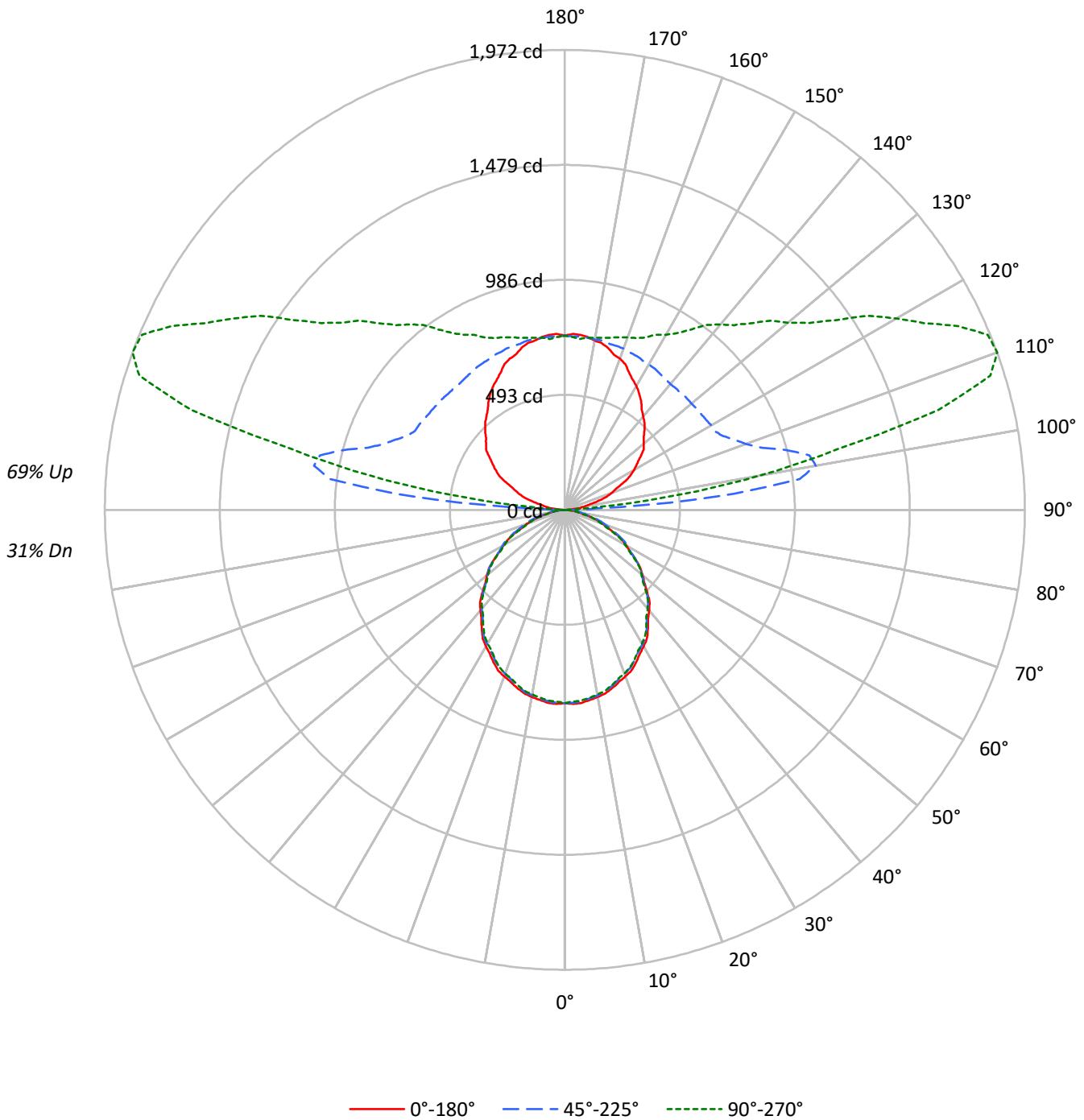
Lumens per Lamp: N/A  
Luminaire Lumens: 6747.4 lumens  
Efficiency: N/A  
Efficacy: 127.6 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 52.9  
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	92	92	92	92	73	73	73	55	55	55	39	39	39	31
1	94	89	86	82	84	81	77	75	64	62	60	49	47	46	34	34	33	26
2	85	78	72	67	76	70	65	61	56	53	50	43	40	38	30	29	28	22
3	78	69	62	56	70	62	56	51	49	45	42	38	35	33	27	25	24	19
4	71	61	53	47	64	55	48	43	44	39	35	34	30	28	24	22	20	16
5	65	54	46	40	58	49	42	37	39	34	30	30	27	24	22	19	18	14
6	60	48	40	35	54	44	37	32	35	30	26	27	24	21	20	17	16	12
7	55	43	36	30	50	39	33	28	32	27	23	25	21	18	18	16	14	11
8	51	39	32	27	46	36	29	25	29	24	20	22	19	16	16	14	12	10
9	48	36	29	24	43	33	26	22	26	22	18	21	17	15	15	13	11	9
10	44	33	26	21	40	30	24	19	24	20	16	19	16	13	14	12	10	8

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	7644	7644	7644
5°	7693	7632	7599
10°	7632	7570	7529
15°	7551	7467	7439
20°	7461	7346	7331
25°	7356	7223	7200
30°	7201	7092	7045
35°	6997	6898	6857
40°	6778	6672	6646
45°	6515	6429	6400
50°	6244	6192	6150
55°	5953	5953	5858
60°	5589	5698	5495
65°	5115	5370	4988
70°	4510	4942	4392
75°	3850	4424	3747
80°	2986	3725	3023
85°	1927	2858	2551



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	78.0	1.2
10°-20°	220.3	3.3
20°-30°	326.7	4.8
30°-40°	382.3	5.7
40°-50°	380.6	5.6
50°-60°	328.7	4.9
60°-70°	236.6	3.5
70°-80°	124.1	1.8
80°-90°	30.8	0.5
90°-100°	340.3	5.0
100°-110°	968.4	14.4
110°-120°	927.8	13.8
120°-130°	734.4	10.9
130°-140°	589.4	8.7
140°-150°	461.5	6.8
150°-160°	337.6	5.0
160°-170°	209.1	3.1
170°-180°	71.0	1.1
0°-30°	625.0	9.3
0°-40°	1007.3	14.9
0°-60°	1716.5	25.4
0°-90°	2107.9	31.2
90°-120°	2236.6	33.1
90°-150°	4021.8	59.6
90°-180°	4640.0	68.8
0°-180°	6747.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	828	828	828	828	828	
5°	831	821	824	822	820	79
15°	790	780	782	780	779	223
25°	723	710	710	705	707	332
35°	621	613	612	607	609	388
45°	499	495	493	491	490	385
55°	370	369	370	365	364	330
65°	234	241	246	236	228	232
75°	108	118	124	116	105	116
85°	18	24	27	26	24	24
90°	0	0	0	0	0	2
95°	37	147	659	228	141	42
105°	150	228	987	1743	1657	159
115°	280	338	748	1585	1862	275
125°	395	438	714	1185	1417	353
135°	483	523	706	1001	1132	373
145°	569	599	711	866	944	356
155°	650	666	728	783	815	301
165°	718	721	737	753	764	202
175°	753	748	746	741	736	71
180°	747	747	747	747	747	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	828.5	828.5	828.5	828.5	828.5
2.5°	833.2	826.3	828.5	826.6	822.6
5°	830.7	821.4	824.1	821.9	820.5
7.5°	822.2	813.6	815.6	813.3	812.4
10°	814.6	806.0	808.0	805.1	803.7
12.5°	805.9	796.7	798.7	795.8	794.9
15°	790.5	780.5	781.8	780.3	778.8
17.5°	772.7	762.6	762.8	760.4	760.2
20°	759.9	749.2	748.2	745.3	746.7
22.5°	745.9	734.6	733.6	729.5	731.5
25°	722.6	710.5	709.5	705.2	707.3
27.5°	695.8	683.8	683.8	677.7	680.0
30°	675.9	664.5	665.7	658.5	661.3
32.5°	654.9	644.6	645.3	638.0	640.9
35°	621.2	612.6	612.4	606.6	608.8
37.5°	586.7	579.2	578.0	574.6	575.2
40°	562.8	556.4	554.0	551.8	551.8
42.5°	537.7	531.8	529.5	527.9	527.3
45°	499.3	495.0	492.7	491.2	490.5
47.5°	461.3	457.3	455.3	454.3	453.6
50°	435.0	432.2	431.4	429.2	428.5
52.5°	408.8	407.1	406.3	403.5	402.8
55°	370.1	369.4	370.1	365.0	364.2
57.5°	329.8	330.9	333.3	326.4	324.7
60°	302.9	305.8	308.8	300.7	297.8
62.5°	275.5	280.0	284.2	275.0	271.0
65°	234.3	241.4	246.0	236.3	228.5
67.5°	194.6	203.5	208.9	198.5	189.6
70°	167.2	177.1	183.2	172.8	162.8
72.5°	143.2	154.3	159.3	149.4	139.4
75°	108.0	118.0	124.1	115.8	105.1
77.5°	76.6	86.1	91.1	83.9	75.0
80°	56.2	66.2	70.1	64.1	56.9
82.5°	39.9	48.1	50.8	47.2	42.3
85°	18.2	24.0	27.0	25.5	24.1
87.5°	4.7	8.7	11.1	11.1	11.7
90°	0.0	0.0	0.0	0.0	0.0
92.5°	11.4	60.2	139.7	40.7	30.7
95°	36.9	146.6	658.9	228.0	140.6
97.5°	67.9	171.7	1014.7	726.1	497.6
100°	89.5	186.6	1092.0	1106.1	852.0
102.5°	113.3	202.7	1074.9	1415.8	1193.9
105°	150.5	228.3	986.9	1743.2	1657.1
107.5°	188.3	258.0	884.1	1835.5	1912.1
110°	214.4	279.7	825.0	1800.2	1972.3

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	239.4	301.3	785.2	1716.7	1962.1
115°	279.7	338.0	748.3	1585.3	1861.6
117.5°	315.2	369.9	726.5	1441.7	1734.4
120°	343.6	389.5	724.2	1359.6	1640.1
122.5°	366.4	412.2	718.5	1287.6	1548.1
125°	394.8	437.8	714.2	1185.3	1417.1
127.5°	425.7	466.0	712.0	1124.1	1315.2
130°	441.6	481.9	708.6	1081.5	1248.2
132.5°	458.7	497.8	708.6	1048.3	1201.6
135°	482.8	523.1	705.7	1001.2	1131.7
137.5°	505.5	544.7	705.4	961.3	1074.1
140°	522.6	562.8	704.3	928.3	1036.6
142.5°	541.9	575.5	707.7	901.9	999.1
145°	569.4	598.6	711.4	866.5	944.3
147.5°	593.0	621.3	717.7	830.8	898.0
150°	613.4	632.9	719.9	819.0	866.2
152.5°	629.3	649.9	722.2	803.0	846.9
155°	650.3	665.6	728.4	783.1	815.1
157.5°	676.5	685.6	729.9	774.1	796.9
160°	690.1	697.1	735.5	767.2	786.7
162.5°	698.1	706.1	736.7	761.4	776.4
165°	718.5	721.3	737.0	752.8	763.9
167.5°	732.4	729.9	743.5	750.7	755.1
170°	737.0	735.6	741.2	742.8	748.3
172.5°	747.2	742.5	744.6	740.5	744.9
175°	752.6	748.4	745.5	741.1	735.5
177.5°	754.9	748.2	744.6	740.1	741.2
180°	746.9	746.9	746.9	746.9	746.9

(END OF REPORT)