

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: P562247

Luminaire Tested: **SQ4-PW1-075U-050D-92765-1D-UNV-STD-W-4 (3500K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562247
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-PW1-075U-050D-92765-1D-UNV-STD-W-4 (3500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

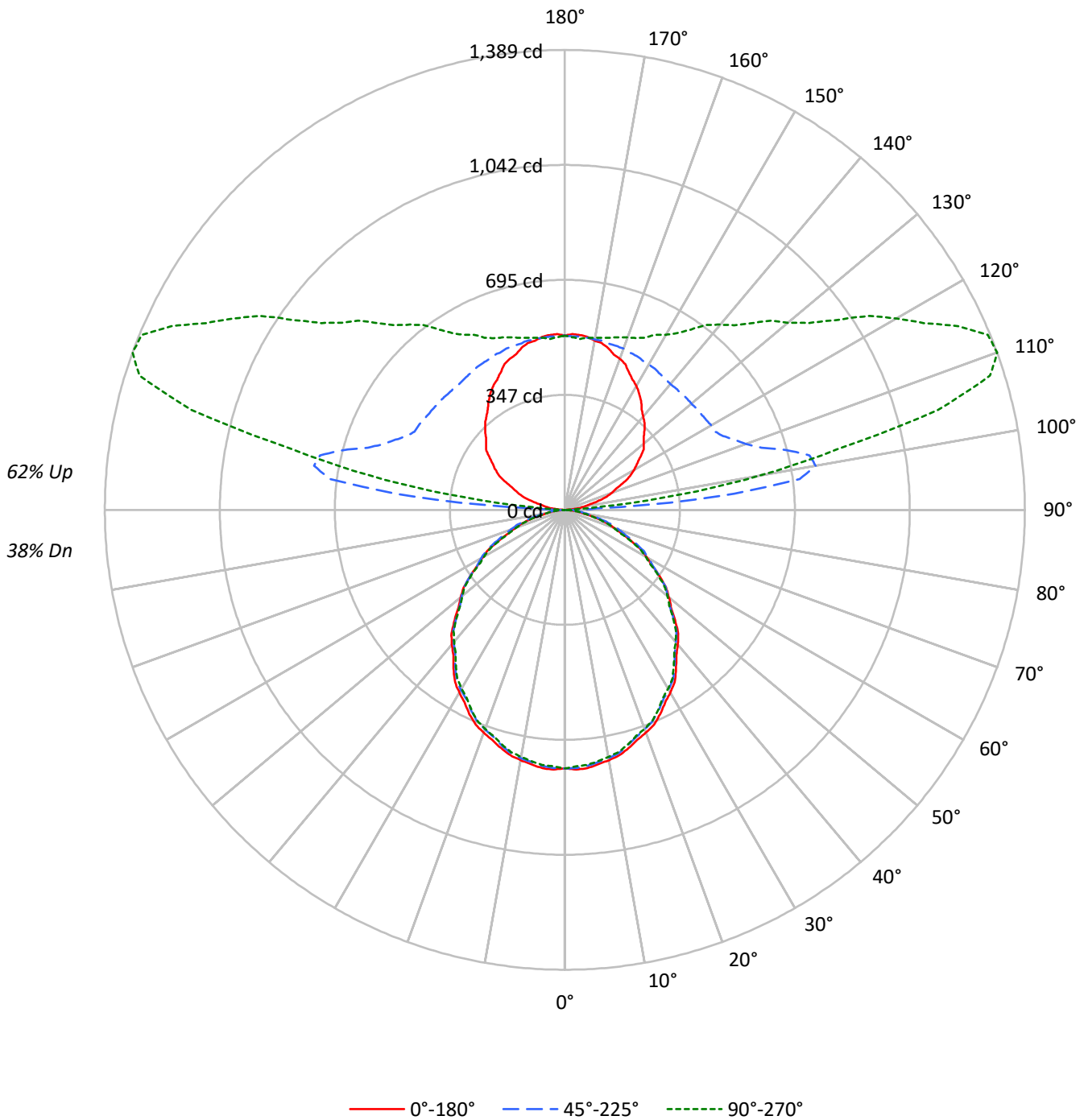
Lumens per Lamp: N/A
Luminaire Lumens: 5254.0 lumens
Efficiency: N/A
Efficacy: 118.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 44.4
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	104	104	104	104	95	95	95	95	77	77	77	60	60	60	45	45	45	38
1	95	91	87	84	86	83	79	77	67	65	63	53	51	50	40	39	38	32
2	87	79	73	68	78	72	67	63	59	55	52	47	44	42	35	34	32	27
3	79	70	63	57	71	64	57	53	52	48	44	41	38	35	31	29	27	23
4	72	62	54	48	65	56	50	45	46	41	37	37	33	30	28	26	24	20
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	23	21	17
6	61	49	41	36	55	45	38	33	37	32	28	30	26	23	23	20	18	15
7	56	44	37	31	51	41	34	29	34	28	25	27	23	20	21	18	16	13
8	52	40	33	27	47	37	30	26	31	25	22	25	21	18	19	16	14	12
9	49	37	29	24	44	34	27	23	28	23	19	23	19	16	18	15	13	11
10	45	33	26	22	41	31	25	20	26	21	17	21	17	15	16	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7204	7204	7204
5°	7251	7193	7161
10°	7192	7134	7096
15°	7116	7038	7011
20°	7031	6923	6910
25°	6933	6807	6786
30°	6786	6684	6640
35°	6593	6501	6462
40°	6388	6288	6264
45°	6139	6059	6032
50°	5885	5836	5796
55°	5611	5611	5522
60°	5268	5370	5180
65°	4820	5060	4700
70°	4249	4659	4138
75°	3629	4167	3533
80°	2816	3507	2853
85°	1821	2699	2403



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.5	1.4
10°-20°	207.6	4.0
20°-30°	307.9	5.9
30°-40°	360.3	6.9
40°-50°	358.7	6.8
50°-60°	309.7	5.9
60°-70°	223.0	4.2
70°-80°	116.9	2.2
80°-90°	29.0	0.6
90°-100°	239.7	4.6
100°-110°	682.0	13.0
110°-120°	653.4	12.4
120°-130°	517.2	9.8
130°-140°	415.1	7.9
140°-150°	325.0	6.2
150°-160°	237.8	4.5
160°-170°	147.3	2.8
170°-180°	50.0	1.0
0°-30°	589.0	11.2
0°-40°	949.3	18.1
0°-60°	1617.7	30.8
0°-90°	1986.6	37.8
90°-120°	1575.1	30.0
90°-150°	2832.3	53.9
90°-180°	3267.0	62.2
0°-180°	5254.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	781	781	781	781	781	
5°	783	774	777	775	773	74
15°	745	736	737	735	734	210
25°	681	670	669	665	667	313
35°	585	577	577	572	574	366
45°	470	466	464	463	462	363
55°	349	348	349	344	343	311
65°	221	228	232	223	215	219
75°	102	111	117	109	99	109
85°	17	23	26	24	23	23
90°	0	0	0	0	0	2
95°	26	103	464	161	99	30
105°	106	161	695	1228	1167	112
115°	197	238	527	1116	1311	194
125°	278	308	503	835	998	249
135°	340	368	497	705	797	262
145°	401	422	501	610	665	250
155°	458	469	513	552	574	212
165°	506	508	519	530	538	142
175°	530	527	525	522	518	50
180°	526	526	526	526	526	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	780.8	780.8	780.8	780.8	780.8
2.5°	785.2	778.7	780.8	779.1	775.3
5°	782.9	774.1	776.7	774.6	773.2
7.5°	774.9	766.8	768.7	766.5	765.7
10°	767.7	759.7	761.5	758.8	757.4
12.5°	759.5	750.9	752.7	750.0	749.2
15°	745.0	735.6	736.8	735.4	734.0
17.5°	728.2	718.7	718.9	716.7	716.4
20°	716.1	706.0	705.1	702.4	703.8
22.5°	702.9	692.3	691.4	687.6	689.4
25°	681.0	669.6	668.7	664.6	666.6
27.5°	655.7	644.4	644.5	638.7	640.9
30°	637.0	626.3	627.4	620.6	623.3
32.5°	617.2	607.5	608.1	601.3	604.0
35°	585.4	577.4	577.2	571.7	573.7
37.5°	553.0	545.8	544.7	541.5	542.1
40°	530.4	524.3	522.1	520.1	520.1
42.5°	506.7	501.2	499.0	497.5	497.0
45°	470.5	466.5	464.4	463.0	462.3
47.5°	434.8	431.0	429.1	428.2	427.5
50°	410.0	407.3	406.6	404.5	403.8
52.5°	385.2	383.6	382.9	380.3	379.6
55°	348.8	348.1	348.8	343.9	343.3
57.5°	310.8	311.9	314.1	307.6	306.0
60°	285.5	288.2	291.0	283.4	280.7
62.5°	259.6	263.9	267.9	259.1	255.4
65°	220.8	227.6	231.8	222.7	215.3
67.5°	183.4	191.7	196.9	187.1	178.7
70°	157.5	167.0	172.7	162.8	153.4
72.5°	135.0	145.5	150.1	140.8	131.4
75°	101.8	111.2	116.9	109.2	99.1
77.5°	72.2	81.1	85.9	79.1	70.7
80°	53.0	62.4	66.0	60.4	53.7
82.5°	37.6	45.4	47.9	44.5	39.9
85°	17.2	22.6	25.5	24.0	22.7
87.5°	4.4	8.2	10.5	10.5	11.0
90°	0.0	0.0	0.0	0.0	0.0
92.5°	8.0	42.4	98.4	28.6	21.6
95°	26.0	103.2	464.0	160.6	99.0
97.5°	47.8	120.9	714.6	511.3	350.4
100°	63.0	131.4	769.0	778.9	600.0
102.5°	79.8	142.8	757.0	997.0	840.8
105°	106.0	160.8	695.0	1227.6	1167.0
107.5°	132.6	181.7	622.6	1292.6	1346.6
110°	151.0	197.0	581.0	1267.8	1389.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	168.6	212.2	553.0	1208.9	1381.8
115°	197.0	238.1	527.0	1116.4	1311.0
117.5°	222.0	260.5	511.6	1015.3	1221.4
120°	242.0	274.3	510.0	957.5	1155.0
122.5°	258.0	290.3	506.0	906.8	1090.2
125°	278.0	308.3	503.0	834.7	998.0
127.5°	299.8	328.2	501.4	791.7	926.2
130°	311.0	339.4	499.0	761.7	879.0
132.5°	323.0	350.6	499.0	738.3	846.2
135°	340.0	368.4	497.0	705.1	797.0
137.5°	356.0	383.6	496.8	677.0	756.4
140°	368.0	396.4	496.0	653.7	730.0
142.5°	381.6	405.3	498.4	635.2	703.6
145°	401.0	421.5	501.0	610.2	665.0
147.5°	417.6	437.5	505.4	585.1	632.4
150°	432.0	445.7	507.0	576.8	610.0
152.5°	443.2	457.7	508.6	565.5	596.4
155°	458.0	468.8	513.0	551.5	574.0
157.5°	476.4	482.9	514.0	545.2	561.2
160°	486.0	490.9	518.0	540.3	554.0
162.5°	491.6	497.3	518.8	536.2	546.8
165°	506.0	508.0	519.0	530.2	538.0
167.5°	515.8	514.0	523.6	528.7	531.8
170°	519.0	518.0	522.0	523.1	527.0
172.5°	526.2	522.9	524.4	521.5	524.6
175°	530.0	527.1	525.0	521.9	518.0
177.5°	531.6	526.9	524.4	521.2	522.0
180°	526.0	526.0	526.0	526.0	526.0

(END OF REPORT)