

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: P562250

Luminaire Tested: **SQ4-PW1-075U-050D-92765-1D-UNV-STD-W-4 (5000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562250
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 (5000K)
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 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

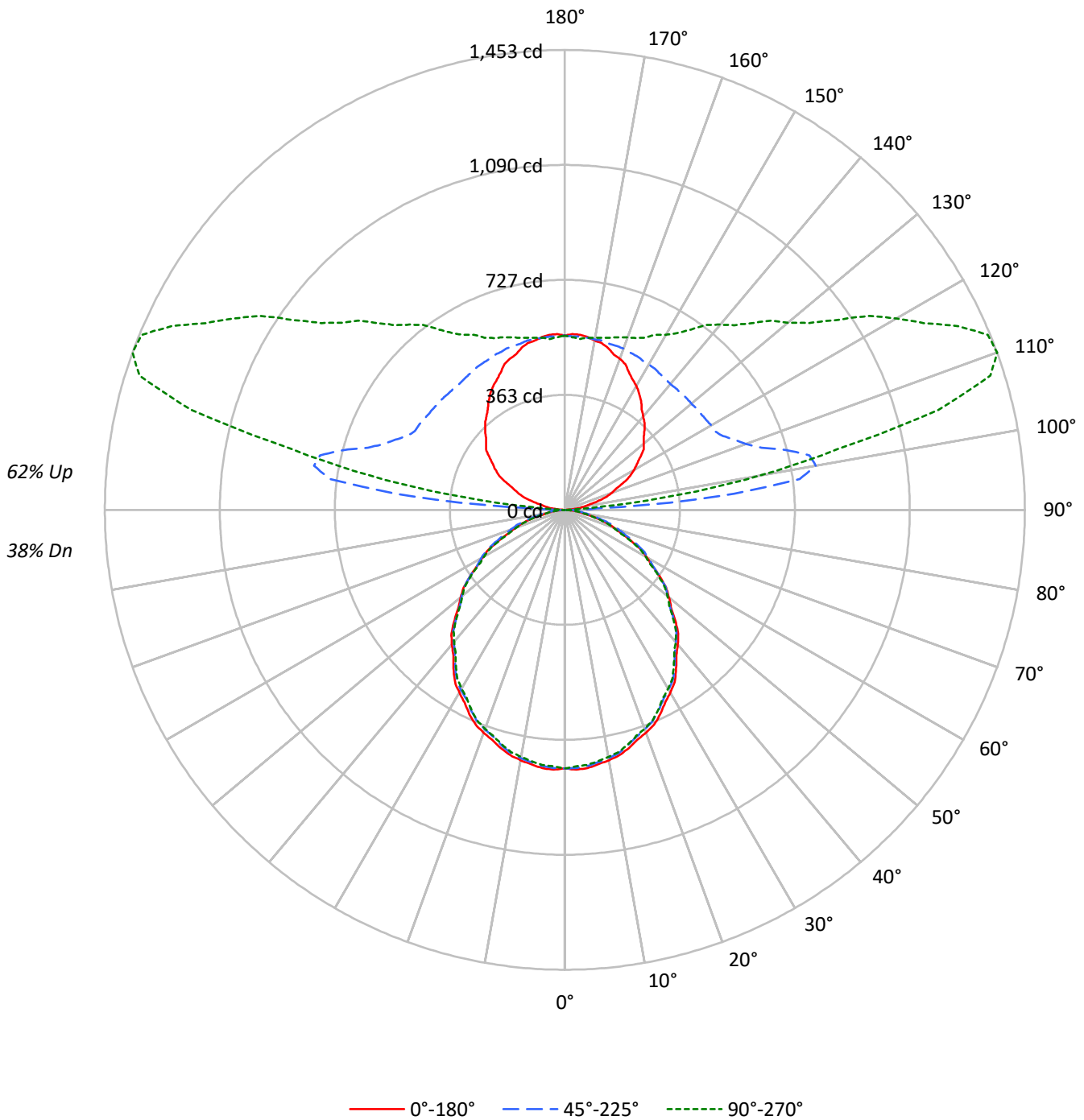
Lumens per Lamp: N/A
Luminaire Lumens: 5496.5 lumens
Efficiency: N/A
Efficacy: 124.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 44.3
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	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°	7536	7536	7536
5°	7585	7525	7492
10°	7525	7464	7424
15°	7445	7362	7335
20°	7356	7243	7228
25°	7253	7121	7100
30°	7099	6993	6946
35°	6899	6801	6760
40°	6683	6578	6553
45°	6423	6339	6310
50°	6156	6105	6064
55°	5870	5870	5776
60°	5512	5617	5418
65°	5043	5294	4919
70°	4446	4872	4330
75°	3796	4360	3693
80°	2943	3671	2981
85°	1905	2816	2509



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.9	1.4
10°-20°	217.2	4.0
20°-30°	322.1	5.9
30°-40°	376.9	6.9
40°-50°	375.2	6.8
50°-60°	324.0	5.9
60°-70°	233.2	4.2
70°-80°	122.3	2.2
80°-90°	30.3	0.6
90°-100°	250.8	4.6
100°-110°	713.5	13.0
110°-120°	683.6	12.4
120°-130°	541.0	9.8
130°-140°	434.3	7.9
140°-150°	340.0	6.2
150°-160°	248.8	4.5
160°-170°	154.1	2.8
170°-180°	52.3	1.0
0°-30°	616.2	11.2
0°-40°	993.1	18.1
0°-60°	1692.4	30.8
0°-90°	2078.3	37.8
90°-120°	1647.8	30.0
90°-150°	2963.1	53.9
90°-180°	3418.0	62.2
0°-180°	5496.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	817	817	817	817	817	
5°	819	810	812	810	809	78
15°	779	770	771	769	768	220
25°	712	700	700	695	697	328
35°	612	604	604	598	600	383
45°	492	488	486	484	484	380
55°	365	364	365	360	359	326
65°	231	238	242	233	225	229
75°	106	116	122	114	104	114
85°	18	24	27	25	24	24
90°	0	0	0	0	0	2
95°	27	108	485	168	104	31
105°	111	168	727	1284	1221	117
115°	206	249	551	1168	1372	203
125°	291	322	526	873	1044	260
135°	356	385	520	738	834	274
145°	420	441	524	638	696	262
155°	479	490	537	577	600	221
165°	529	531	543	555	563	149
175°	554	551	549	546	542	53
180°	550	550	550	550	550	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	816.8	816.8	816.8	816.8	816.8
2.5°	821.5	814.7	816.8	815.0	811.1
5°	819.0	809.9	812.5	810.3	808.9
7.5°	810.7	802.2	804.2	801.9	801.0
10°	803.2	794.7	796.7	793.8	792.4
12.5°	794.5	785.5	787.5	784.6	783.7
15°	779.4	769.6	770.8	769.3	767.9
17.5°	761.9	751.9	752.1	749.8	749.5
20°	749.2	738.6	737.7	734.8	736.2
22.5°	735.4	724.3	723.3	719.3	721.3
25°	712.5	700.5	699.5	695.3	697.4
27.5°	686.0	674.2	674.2	668.2	670.5
30°	666.4	655.2	656.4	649.2	652.0
32.5°	645.7	635.6	636.2	629.1	631.9
35°	612.5	604.0	603.8	598.1	600.2
37.5°	578.5	571.0	569.9	566.6	567.1
40°	554.9	548.5	546.2	544.1	544.1
42.5°	530.1	524.4	522.1	520.5	519.9
45°	492.3	488.0	485.8	484.3	483.6
47.5°	454.8	450.9	448.9	447.9	447.2
50°	428.9	426.1	425.3	423.2	422.5
52.5°	403.0	401.3	400.6	397.8	397.1
55°	364.9	364.2	364.9	359.8	359.1
57.5°	325.2	326.3	328.6	321.8	320.1
60°	298.7	301.5	304.4	296.4	293.6
62.5°	271.6	276.1	280.2	271.1	267.1
65°	231.0	238.1	242.5	233.0	225.3
67.5°	191.9	200.6	206.0	195.7	187.0
70°	164.8	174.7	180.6	170.3	160.5
72.5°	141.2	152.2	157.0	147.3	137.5
75°	106.5	116.4	122.3	114.2	103.6
77.5°	75.6	84.9	89.8	82.7	74.0
80°	55.4	65.3	69.1	63.2	56.1
82.5°	39.3	47.5	50.1	46.5	41.7
85°	18.0	23.6	26.6	25.2	23.7
87.5°	4.6	8.5	10.9	11.0	11.5
90°	0.0	0.0	0.0	0.0	0.0
92.5°	8.4	44.4	102.9	30.0	22.6
95°	27.2	108.0	485.4	168.0	103.6
97.5°	50.0	126.5	747.6	535.0	366.6
100°	65.9	137.5	804.5	814.9	627.7
102.5°	83.5	149.4	792.0	1043.1	879.6
105°	110.9	168.2	727.1	1284.3	1220.9
107.5°	138.7	190.1	651.3	1352.3	1408.8
110°	158.0	206.0	607.8	1326.3	1453.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	176.4	222.0	578.5	1264.7	1445.6
115°	206.1	249.1	551.3	1168.0	1371.5
117.5°	232.2	272.6	535.2	1062.2	1277.8
120°	253.2	286.9	533.5	1001.7	1208.3
122.5°	269.9	303.7	529.4	948.6	1140.5
125°	290.8	322.5	526.2	873.2	1044.1
127.5°	313.6	343.3	524.5	828.2	969.0
130°	325.4	355.0	522.0	796.8	919.6
132.5°	337.9	366.8	522.0	772.3	885.3
135°	355.7	385.4	519.9	737.6	833.8
137.5°	372.4	401.3	519.7	708.3	791.3
140°	385.0	414.7	518.9	683.9	763.7
142.5°	399.2	424.0	521.4	664.5	736.1
145°	419.5	441.0	524.1	638.4	695.7
147.5°	436.9	457.7	528.7	612.1	661.6
150°	451.9	466.3	530.4	603.4	638.2
152.5°	463.7	478.8	532.1	591.6	623.9
155°	479.1	490.4	536.7	577.0	600.5
157.5°	498.4	505.1	537.7	570.3	587.1
160°	508.4	513.6	541.9	565.3	579.6
162.5°	514.3	520.2	542.8	561.0	572.0
165°	529.4	531.4	543.0	554.7	562.8
167.5°	539.6	537.8	547.8	553.1	556.4
170°	543.0	541.9	546.1	547.2	551.3
172.5°	550.5	547.0	548.6	545.5	548.8
175°	554.5	551.4	549.2	546.0	541.9
177.5°	556.1	551.2	548.6	545.3	546.1
180°	550.3	550.3	550.3	550.3	550.3

(END OF REPORT)