

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: P523728

Luminaire Tested: **SQ4-PP3-075U-050D-92765-1D-UNV-STD-W-4 (5000K)**

Issue Date: 5/24/2021

Test Information

Test Method: LM-79-2019
Report Number: P523728
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-PP3-075U-050D-92765-1D-UNV-STD-W-4 (5000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM 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: 5519.4 lumens
Efficiency: N/A
Efficacy: 124.6 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: Semi-Indirect

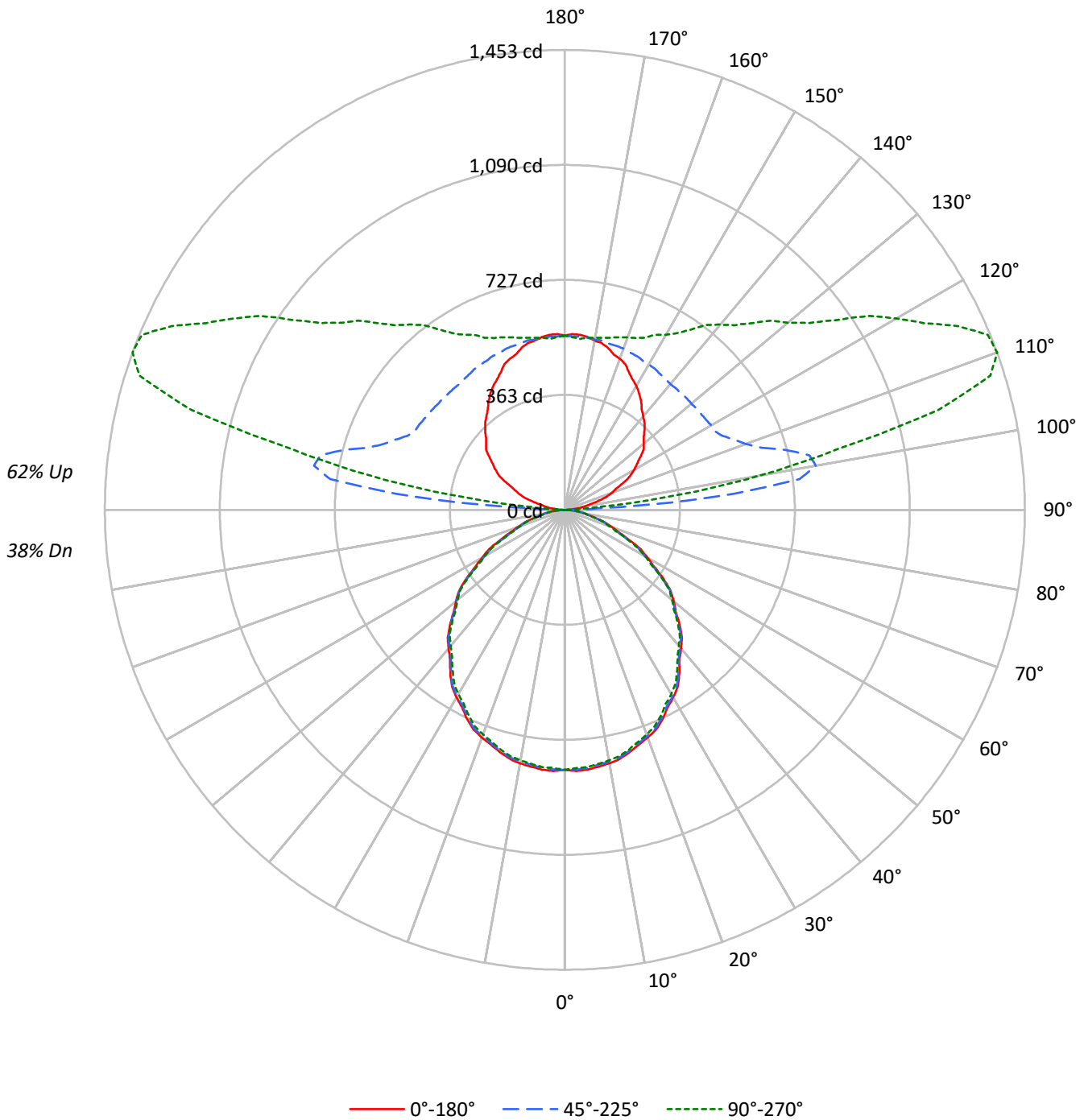
Input Watts (W): 44.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	80	77	67	65	63	53	52	50	40	39	38	32
2	87	80	74	69	79	73	68	63	59	56	53	47	44	42	35	34	33	27
3	79	70	63	57	72	64	58	53	52	48	44	42	38	36	32	30	28	23
4	72	62	54	48	66	57	50	45	46	42	38	37	34	31	28	26	24	20
5	66	55	47	41	60	50	44	38	42	36	32	33	30	27	25	23	21	17
6	61	49	42	36	55	45	38	33	37	32	28	30	26	23	23	20	18	15
7	57	45	37	31	51	41	34	29	34	29	25	27	23	21	21	18	16	14
8	52	40	33	28	47	37	30	26	31	26	22	25	21	18	19	17	15	12
9	49	37	29	25	44	34	27	23	28	23	20	23	19	16	18	15	13	11
10	45	34	27	22	41	31	25	20	26	21	18	21	17	15	16	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7575	7575	7575
5°	7630	7583	7556
10°	7618	7563	7529
15°	7567	7526	7485
20°	7517	7475	7418
25°	7427	7376	7303
30°	7290	7252	7159
35°	7099	7051	6962
40°	6872	6829	6751
45°	6684	6637	6572
50°	6445	6403	6341
55°	6111	6030	5984
60°	5563	5403	5377
65°	4901	4696	4681
70°	4232	4057	4057
75°	3643	3590	3540
80°	3209	3252	3172
85°	2509	2742	2742



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.6	1.4
10°-20°	221.7	4.0
20°-30°	332.0	6.0
30°-40°	389.5	7.1
40°-50°	390.7	7.1
50°-60°	333.3	6.0
60°-70°	217.3	3.9
70°-80°	109.0	2.0
80°-90°	30.2	0.5
90°-100°	250.8	4.5
100°-110°	713.5	12.9
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	0.9
0°-30°	631.3	11.4
0°-40°	1020.8	18.5
0°-60°	1744.7	31.6
0°-90°	2101.3	38.1
90°-120°	1647.8	29.9
90°-150°	2963.1	53.7
90°-180°	3418.0	61.9
0°-180°	5519.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	821	821	821	821	821	
5°	824	816	819	816	816	78
15°	792	784	788	785	784	223
25°	730	721	725	718	717	336
35°	630	624	626	619	618	394
45°	512	509	509	504	504	394
55°	380	378	375	373	372	338
65°	224	220	215	214	214	224
75°	102	102	101	100	99	111
85°	24	26	26	26	26	28
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°	821.0	821.0	821.0	821.0	821.0
2.5°	826.2	819.4	821.0	819.7	816.4
5°	823.8	816.1	818.8	815.9	815.9
7.5°	818.2	809.8	812.5	809.6	809.5
10°	813.1	804.6	807.3	804.4	803.7
12.5°	805.6	797.1	800.4	796.9	796.8
15°	792.2	784.5	787.9	785.0	783.6
17.5°	777.1	768.6	772.8	768.7	768.2
20°	765.6	757.1	761.3	755.5	755.5
22.5°	751.8	743.3	748.0	740.5	740.5
25°	729.6	721.1	724.6	718.1	717.4
27.5°	703.3	695.0	698.5	691.2	691.0
30°	684.3	676.5	680.7	672.7	672.0
32.5°	663.5	656.4	659.4	651.4	650.7
35°	630.3	624.0	626.0	618.8	618.1
37.5°	595.3	588.9	591.2	585.0	584.7
40°	570.6	566.4	567.0	561.9	560.5
42.5°	547.6	542.8	543.4	538.3	538.1
45°	512.3	508.8	508.7	503.7	503.7
47.5°	474.9	472.2	471.4	467.3	467.1
50°	449.0	446.9	446.1	442.5	441.8
52.5°	421.9	420.9	418.5	415.4	415.3
55°	379.9	378.5	374.9	372.7	372.0
57.5°	334.3	331.5	327.4	324.2	324.8
60°	301.5	298.7	292.8	291.4	291.4
62.5°	269.8	266.4	260.6	258.6	259.7
65°	224.5	220.3	215.1	213.7	214.4
67.5°	183.3	179.5	174.0	174.0	173.4
70°	156.9	154.7	150.4	150.4	150.4
72.5°	133.3	132.3	129.1	129.1	128.5
75°	102.2	102.2	100.7	100.0	99.3
77.5°	76.6	76.8	76.1	75.4	74.1
80°	60.4	61.8	61.2	60.4	59.7
82.5°	45.5	46.9	46.8	45.5	45.3
85°	23.7	25.9	25.9	25.9	25.9
87.5°	6.3	8.6	9.2	9.2	9.8
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)