

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: P561517

Luminaire Tested: **SQ4-PC3-075U-050D-92765-1D-UNV-STD-W-4 (2700K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561517
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2106-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PC3-075U-050D-92765-1D-UNV-STD-W-4 (2700K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

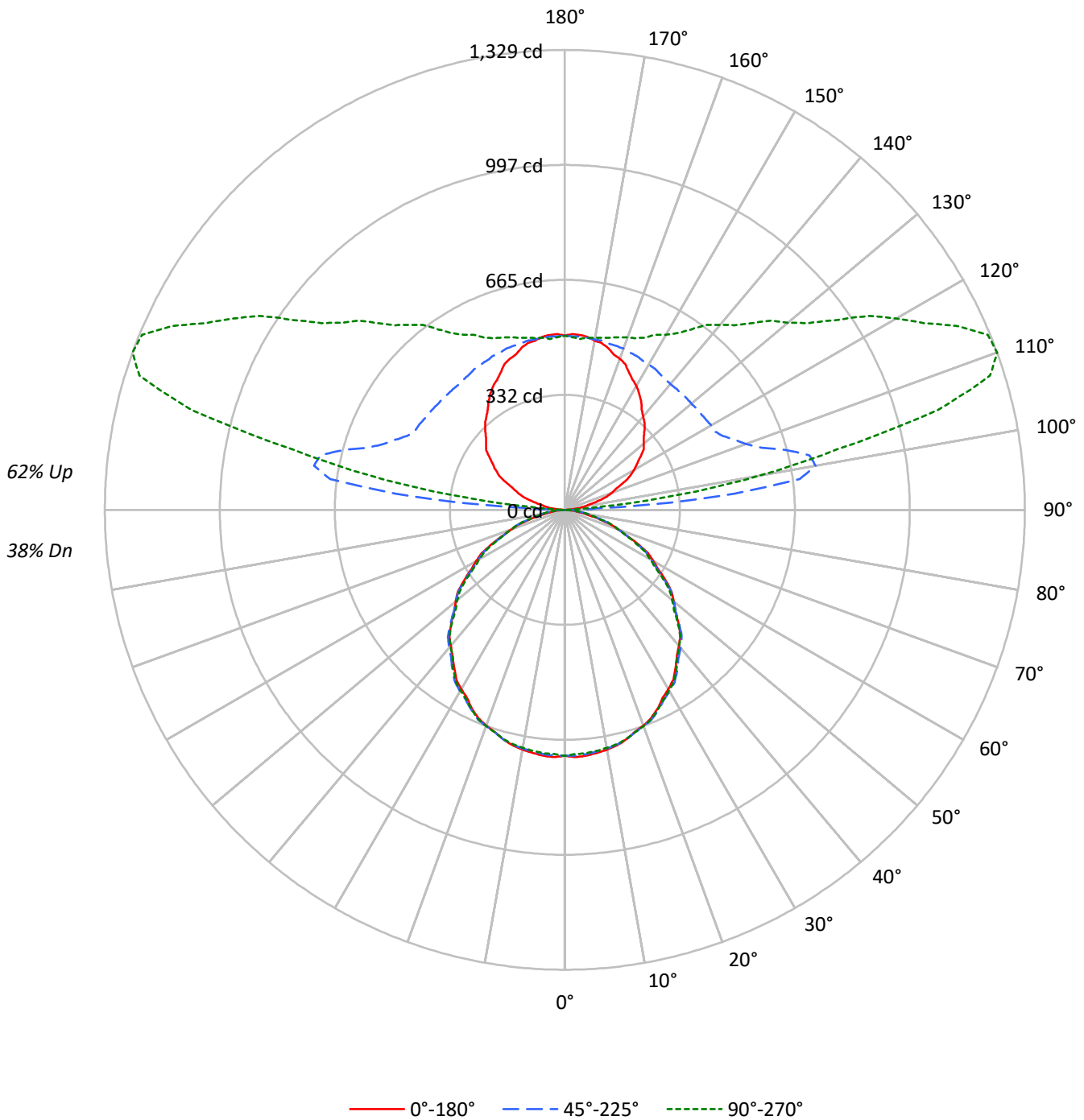
Lumens per Lamp: N/A
Luminaire Lumens: 5065.9 lumens
Efficiency: N/A
Efficacy: 114.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 44.2
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	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	52	52	48	44	41	38	36	31	29	27	23
4	72	62	54	48	65	56	50	44	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	35	55	45	38	33	37	32	28	30	26	23	23	20	18	15
7	56	44	36	31	51	40	34	29	33	28	24	27	23	20	21	18	16	13
8	52	40	32	27	47	37	30	25	30	25	22	25	21	18	19	16	14	12
9	48	36	29	24	44	33	27	22	28	23	19	23	19	16	17	15	13	11
10	45	33	26	22	41	31	24	20	26	21	17	21	17	14	16	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6558	6558	6558
5°	6608	6565	6540
10°	6592	6561	6542
15°	6557	6557	6551
20°	6513	6533	6533
25°	6452	6499	6479
30°	6374	6451	6423
35°	6279	6375	6331
40°	6175	6263	6199
45°	6063	6106	6011
50°	5905	5905	5810
55°	5717	5643	5558
60°	5442	5331	5246
65°	5030	4929	4886
70°	4402	4437	4421
75°	3543	3918	3943
80°	2518	3321	3358
85°	1535	2784	2784



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.3	1.3
10°-20°	193.0	3.8
20°-30°	292.3	5.8
30°-40°	350.5	6.9
40°-50°	357.4	7.1
50°-60°	312.0	6.2
60°-70°	223.3	4.4
70°-80°	115.0	2.3
80°-90°	29.1	0.6
90°-100°	229.3	4.5
100°-110°	652.5	12.9
110°-120°	625.2	12.3
120°-130°	494.8	9.8
130°-140°	397.1	7.8
140°-150°	310.9	6.1
150°-160°	227.5	4.5
160°-170°	140.9	2.8
170°-180°	47.8	0.9
0°-30°	552.7	10.9
0°-40°	903.2	17.8
0°-60°	1572.5	31.0
0°-90°	1940.0	38.3
90°-120°	1507.0	29.7
90°-150°	2709.8	53.5
90°-180°	3126.0	61.7
0°-180°	5065.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	711	711	711	711	711	
5°	714	706	709	707	706	68
15°	686	681	686	686	686	194
25°	634	629	638	636	636	292
35°	558	556	566	562	562	349
45°	465	463	468	462	461	358
55°	355	351	351	346	346	317
65°	230	225	226	224	224	228
75°	99	104	110	111	111	107
85°	14	22	26	27	26	20
90°	0	0	0	0	0	2
95°	25	99	444	154	95	28
105°	101	154	665	1174	1116	107
115°	188	228	504	1068	1254	186
125°	266	295	481	799	955	238
135°	325	352	476	675	762	251
145°	384	403	479	584	636	240
155°	438	448	491	528	549	203
165°	484	486	496	507	515	136
175°	507	504	502	499	496	48
180°	503	503	503	503	503	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	710.8	710.8	710.8	710.8	710.8
2.5°	715.0	708.9	710.8	709.2	706.6
5°	713.5	706.4	708.8	706.9	706.2
7.5°	708.3	701.2	704.5	703.2	702.5
10°	703.6	696.5	700.3	699.0	698.3
12.5°	697.3	690.7	695.0	693.7	693.6
15°	686.5	680.7	686.5	686.5	685.8
17.5°	672.9	667.6	673.8	674.2	673.8
20°	663.4	657.6	665.4	664.8	665.4
22.5°	651.8	647.1	655.4	653.7	654.3
25°	633.8	629.3	638.4	636.4	636.4
27.5°	612.5	609.3	619.2	617.1	617.1
30°	598.3	595.1	605.5	602.9	602.9
32.5°	582.5	580.3	590.2	587.1	587.1
35°	557.5	556.2	566.0	562.1	562.1
37.5°	531.7	530.5	539.4	534.7	533.1
40°	512.7	512.1	520.0	514.7	514.7
42.5°	493.8	493.1	499.9	493.6	493.6
45°	464.7	463.4	468.0	462.0	460.7
47.5°	432.9	431.7	434.5	428.1	427.4
50°	411.4	410.1	411.4	405.4	404.8
52.5°	389.2	386.9	387.1	381.2	381.1
55°	355.4	350.9	350.8	345.5	345.5
57.5°	319.6	313.7	314.2	309.7	309.1
60°	294.9	288.4	288.9	285.0	284.3
62.5°	270.6	263.2	264.7	260.2	260.1
65°	230.4	225.2	225.8	223.8	223.8
67.5°	191.7	186.9	190.3	188.8	188.6
70°	163.2	160.0	164.5	164.5	163.9
72.5°	136.9	136.8	142.4	142.4	142.8
75°	99.4	103.9	109.9	110.6	110.6
77.5°	66.3	74.3	81.0	81.2	81.1
80°	47.4	56.4	62.5	63.8	63.2
82.5°	32.1	41.6	46.7	48.0	47.4
85°	14.5	22.2	26.3	27.0	26.3
87.5°	4.2	8.8	10.5	10.5	9.5
90°	0.0	0.0	0.0	0.0	0.0
92.5°	7.7	40.6	94.1	27.4	20.7
95°	24.9	98.8	443.9	153.7	94.7
97.5°	45.7	115.7	683.7	489.2	335.2
100°	60.3	125.8	735.7	745.2	574.0
102.5°	76.3	136.6	724.3	953.9	804.4
105°	101.4	153.8	664.9	1174.5	1116.5
107.5°	126.9	173.8	595.7	1236.7	1288.3
110°	144.5	188.4	555.9	1212.9	1328.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	161.3	203.0	529.1	1156.6	1322.0
115°	188.5	227.8	504.2	1068.1	1254.3
117.5°	212.4	249.3	489.5	971.4	1168.6
120°	231.5	262.4	487.9	916.1	1105.0
122.5°	246.8	277.7	484.1	867.5	1043.0
125°	266.0	295.0	481.2	798.6	954.8
127.5°	286.8	314.0	479.7	757.4	886.1
130°	297.5	324.7	477.4	728.7	841.0
132.5°	309.0	335.4	477.4	706.3	809.6
135°	325.3	352.4	475.5	674.6	762.5
137.5°	340.6	367.0	475.3	647.7	723.7
140°	352.1	379.2	474.5	625.5	698.4
142.5°	365.1	387.7	476.8	607.7	673.2
145°	383.7	403.3	479.3	583.8	636.2
147.5°	399.5	418.6	483.5	559.8	605.0
150°	413.3	426.4	485.1	551.8	583.6
152.5°	424.0	437.9	486.6	541.0	570.6
155°	438.2	448.5	490.8	527.7	549.2
157.5°	455.8	462.0	491.8	521.6	536.9
160°	465.0	469.7	495.6	516.9	530.0
162.5°	470.3	475.8	496.4	513.0	523.1
165°	484.1	486.0	496.5	507.2	514.7
167.5°	493.5	491.8	500.9	505.8	508.8
170°	496.5	495.6	499.4	500.5	504.2
172.5°	503.4	500.3	501.7	498.9	501.9
175°	507.1	504.3	502.3	499.3	495.6
177.5°	508.6	504.1	501.7	498.7	499.4
180°	503.2	503.2	503.2	503.2	503.2

(END OF REPORT)