

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: P563325

Luminaire Tested: **SQ4-PP3-050U-100D-835-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563325
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-050U-100D-835-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

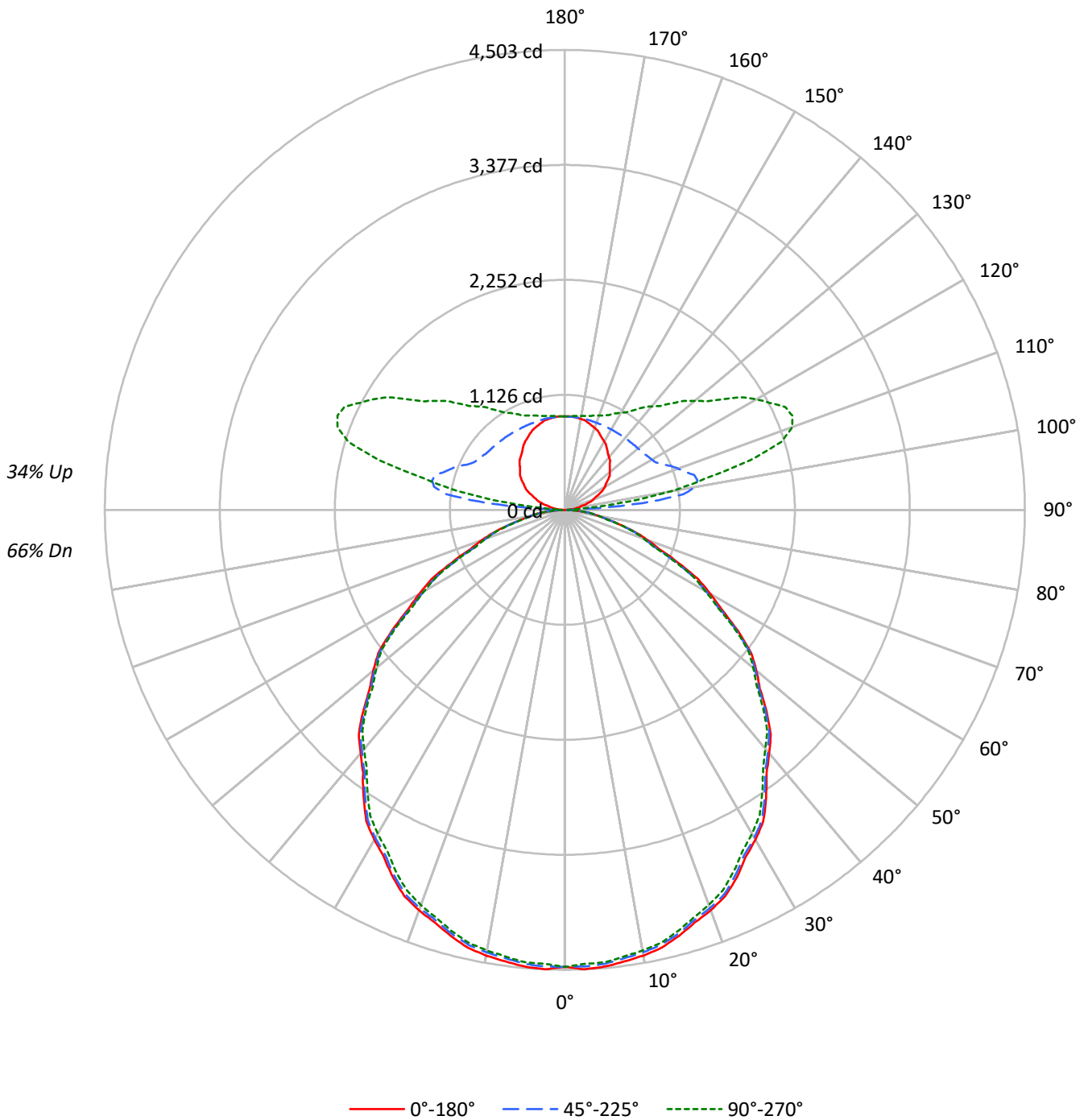
Lumens per Lamp: N/A
Luminaire Lumens: 17431.8 lumens
Efficiency: N/A
Efficacy: 129.7 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 134.4
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	111	111	111	111	104	104	104	104	92	92	92	81	81	81	71	71	71	66
1	102	97	93	90	95	92	88	85	81	79	76	72	70	68	63	61	60	56
2	93	85	79	74	87	80	75	70	72	67	64	63	60	57	56	53	51	47
3	85	75	68	62	79	71	64	59	63	58	54	56	52	49	49	46	44	40
4	78	67	59	52	73	63	56	50	56	51	46	50	46	42	44	41	38	35
5	71	60	51	45	67	56	49	43	51	44	40	45	40	36	40	36	33	30
6	66	54	45	39	62	51	43	38	46	39	35	41	36	32	36	32	29	26
7	61	48	40	35	57	46	39	33	41	35	31	37	32	28	33	29	26	23
8	57	44	36	31	53	42	35	30	38	32	27	34	29	25	30	26	23	21
9	53	40	33	27	50	38	31	27	35	29	25	31	26	23	28	24	21	19
10	49	37	30	25	47	35	29	24	32	26	22	29	24	21	26	22	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13761	13761	13761
5°	13862	13777	13729
10°	13839	13741	13680
15°	13747	13672	13597
20°	13656	13579	13476
25°	13494	13401	13268
30°	13244	13174	13007
35°	12898	12809	12647
40°	12485	12406	12265
45°	12144	12059	11940
50°	11708	11633	11521
55°	11102	10955	10871
60°	10107	9817	9769
65°	8904	8533	8505
70°	7687	7370	7370
75°	6617	6523	6431
80°	5834	5903	5765
85°	4566	4982	4982



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	423.1	2.4
10°-20°	1208.1	6.9
20°-30°	1809.6	10.4
30°-40°	2122.6	12.2
40°-50°	2129.2	12.2
50°-60°	1816.4	10.4
60°-70°	1184.6	6.8
70°-80°	594.3	3.4
80°-90°	168.0	1.0
90°-100°	439.4	2.5
100°-110°	1193.5	6.8
110°-120°	1227.1	7.0
120°-130°	981.1	5.6
130°-140°	770.9	4.4
140°-150°	591.1	3.4
150°-160°	425.1	2.4
160°-170°	260.0	1.5
170°-180°	87.6	0.5
0°-30°	3440.9	19.7
0°-40°	5563.5	31.9
0°-60°	9509.1	54.6
0°-90°	11456.0	65.7
90°-120°	2860.0	16.4
90°-150°	5203.1	29.8
90°-180°	5976.0	34.3
0°-180°	17431.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4475	4475	4475	4475	4475	
5°	4490	4448	4463	4447	4447	426
15°	4318	4276	4294	4278	4271	1218
25°	3977	3930	3949	3914	3910	1829
35°	3435	3401	3412	3372	3369	2146
45°	2792	2773	2773	2745	2745	2150
55°	2071	2063	2043	2031	2028	1840
65°	1224	1200	1173	1165	1169	1221
75°	557	557	549	545	541	604
85°	129	141	141	141	141	152
90°	3	12	21	26	26	9
95°	65	240	765	333	224	69
105°	212	330	1312	1998	1880	225
115°	377	457	1051	2090	2381	372
125°	518	590	950	1602	1889	462
135°	624	693	924	1304	1471	482
145°	721	773	912	1108	1192	453
155°	815	844	906	995	1024	376
165°	883	894	909	948	950	249
175°	915	918	912	924	921	87
180°	915	915	915	915	915	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4474.6	4474.6	4474.6	4474.6	4474.6
2.5°	4502.8	4466.0	4474.6	4467.9	4449.5
5°	4490.3	4448.1	4462.8	4447.2	4447.2
7.5°	4459.7	4413.7	4428.3	4412.6	4411.9
10°	4431.5	4385.4	4400.1	4384.3	4380.5
12.5°	4390.7	4344.7	4362.4	4343.6	4342.8
15°	4317.7	4275.6	4294.2	4278.3	4270.7
17.5°	4235.4	4189.4	4211.9	4189.8	4186.8
20°	4172.6	4126.6	4149.1	4117.7	4117.7
22.5°	4097.3	4051.3	4076.9	4036.2	4036.2
25°	3976.6	3930.5	3949.1	3913.7	3909.9
27.5°	3833.0	3787.8	3807.1	3767.1	3766.4
30°	3729.5	3687.3	3709.9	3666.7	3662.8
32.5°	3616.5	3577.4	3593.8	3550.6	3546.7
35°	3435.4	3400.9	3411.8	3372.5	3368.7
37.5°	3244.8	3209.5	3222.0	3188.3	3186.7
40°	3109.9	3086.9	3090.3	3062.6	3055.0
42.5°	2984.4	2958.3	2961.6	2934.1	2932.6
45°	2792.2	2773.0	2772.6	2745.2	2745.2
47.5°	2588.3	2573.7	2569.5	2546.7	2545.9
50°	2447.1	2435.6	2431.4	2411.7	2407.9
52.5°	2299.7	2294.3	2280.8	2264.3	2263.6
55°	2070.6	2063.0	2043.2	2031.3	2027.5
57.5°	1822.0	1806.7	1784.4	1767.2	1770.2
60°	1643.2	1627.8	1596.1	1588.3	1588.3
62.5°	1470.6	1452.2	1420.4	1409.6	1415.7
65°	1223.6	1200.5	1172.6	1164.8	1168.7
67.5°	999.2	978.5	948.3	948.2	945.1
70°	854.9	843.4	819.6	819.6	819.6
72.5°	726.3	720.9	703.5	703.5	700.4
75°	556.9	556.9	549.0	545.0	541.2
77.5°	417.3	418.8	414.9	410.8	403.9
80°	329.4	337.1	333.3	329.3	325.5
82.5°	247.8	255.5	254.9	247.8	247.1
85°	129.4	140.9	141.2	141.2	141.2
87.5°	35.1	49.1	54.3	55.6	58.6
90°	2.9	11.6	20.6	26.5	26.5
92.5°	26.5	120.3	208.9	89.7	75.9
95°	64.7	240.3	765.1	333.0	223.7
97.5°	107.1	265.4	1173.0	912.6	641.0
100°	135.4	282.1	1297.8	1315.6	1062.4
102.5°	163.6	298.9	1330.8	1627.0	1403.7
105°	211.9	329.9	1312.5	1998.4	1880.5
107.5°	261.9	366.1	1236.6	2190.2	2223.0
110°	297.2	392.2	1180.1	2228.0	2369.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	327.8	418.2	1123.6	2196.7	2409.0
115°	376.7	457.3	1050.6	2090.1	2380.8
117.5°	422.6	499.7	1004.1	1939.1	2266.6
120°	453.2	528.0	982.9	1837.8	2163.0
122.5°	479.1	553.9	968.8	1736.3	2050.0
125°	517.9	589.9	950.5	1601.6	1889.3
127.5°	552.7	624.0	940.5	1499.4	1746.3
130°	573.9	642.9	935.8	1435.3	1656.8
132.5°	595.0	664.1	931.1	1380.5	1576.8
135°	623.9	692.9	924.1	1304.5	1471.4
137.5°	655.1	717.8	920.5	1237.4	1377.8
140°	673.9	734.3	918.2	1194.7	1321.3
142.5°	692.7	748.6	915.8	1161.3	1267.2
145°	721.0	772.8	912.3	1108.4	1191.8
147.5°	752.8	797.1	909.3	1066.8	1132.4
150°	774.0	811.4	909.3	1042.9	1094.7
152.5°	790.4	823.2	907.0	1021.5	1064.1
155°	815.2	843.9	906.4	995.3	1024.1
157.5°	839.3	861.7	906.4	977.5	999.4
160°	853.4	873.6	906.4	965.6	982.9
162.5°	867.5	883.1	908.7	956.1	968.8
165°	882.9	894.4	909.3	947.7	950.5
167.5°	898.7	904.5	912.3	937.6	939.9
170°	903.5	909.2	912.3	932.9	932.9
172.5°	908.2	911.6	912.3	928.2	928.2
175°	915.2	918.1	912.3	924.0	921.1
177.5°	917.6	917.6	910.5	919.8	915.2
180°	915.2	915.2	915.2	915.2	915.2

(END OF REPORT)