

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: P563973

Luminaire Tested: **SQ4-PR1-050U-075D-835-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563973
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PR1-050U-075D-835-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 750 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: 14547.6 lumens
Efficiency: N/A
Efficacy: 137.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: General Diffuse

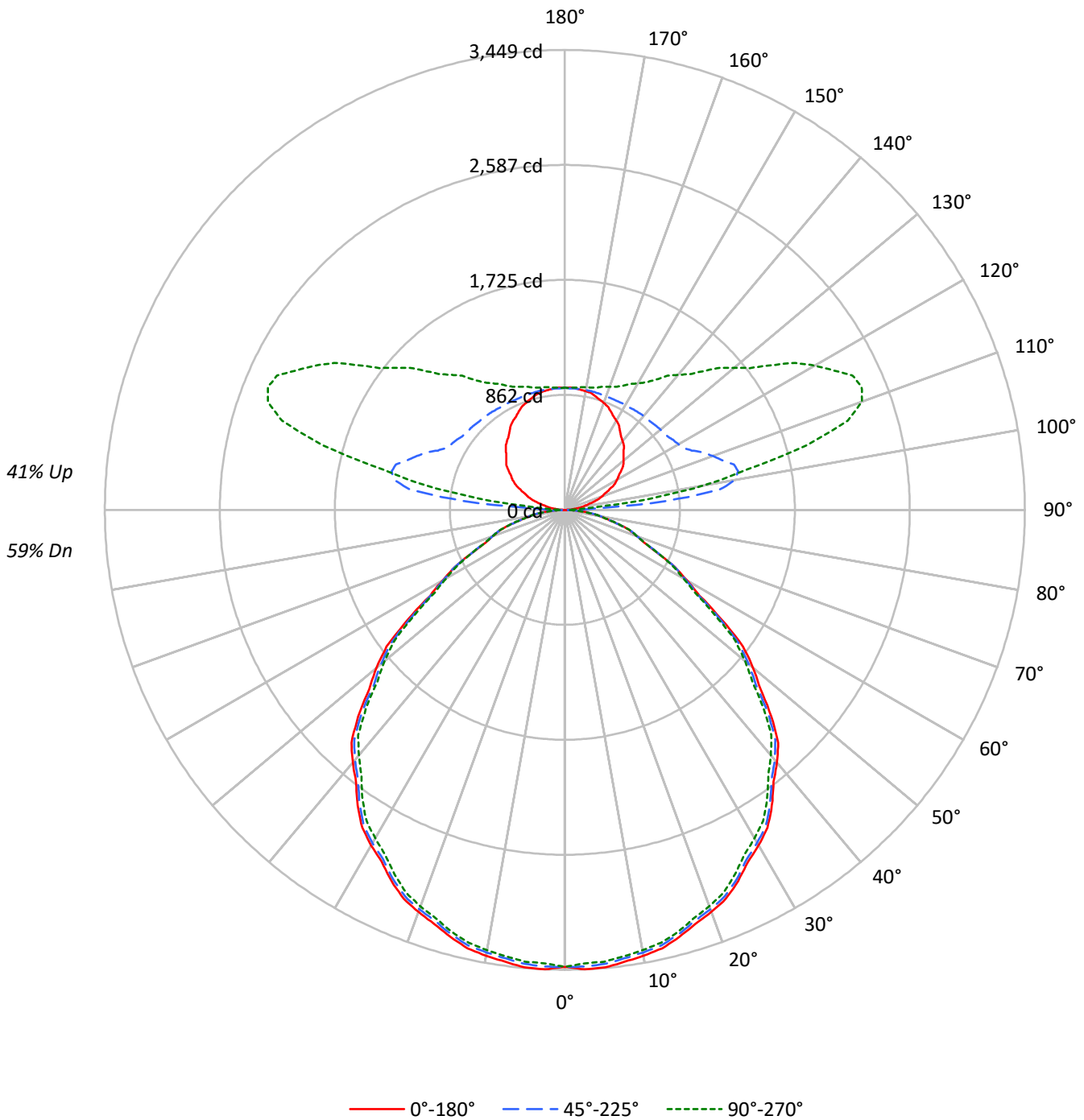
Input Watts (W): 105.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	109	109	109	109	102	102	102	102	88	88	88	76	76	76	64	64	64	59
1	100	96	92	89	93	90	86	83	78	76	73	67	65	64	57	56	55	50
2	91	84	78	73	85	79	73	69	69	65	61	59	56	54	51	49	47	43
3	84	74	67	61	78	70	63	58	61	56	52	53	49	46	45	43	40	37
4	77	66	58	52	71	62	55	49	54	49	44	47	43	40	41	38	35	32
5	71	59	51	45	66	55	48	43	49	43	39	43	38	35	37	33	31	28
6	65	53	45	39	61	50	43	37	44	38	34	39	34	30	33	30	27	24
7	60	48	40	34	56	45	38	33	40	34	30	35	30	27	31	27	24	22
8	56	44	36	30	52	41	34	29	37	31	27	32	28	24	28	24	22	19
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	26	22	20	17
10	49	37	29	25	46	35	28	24	31	25	22	27	23	20	24	20	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10541	10541	10541
5°	10636	10554	10499
10°	10602	10528	10473
15°	10556	10490	10433
20°	10502	10435	10357
25°	10428	10358	10238
30°	10316	10243	10096
35°	10163	10075	9931
40°	9932	9825	9648
45°	9527	9360	9168
50°	8814	8602	8433
55°	7693	7519	7361
60°	6482	6428	6301
65°	5607	5629	5586
70°	5150	5177	5177
75°	4947	4947	4981
80°	4653	4706	4653
85°	3751	4167	4167



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	324.1	2.2
10°-20°	927.3	6.4
20°-30°	1398.7	9.6
30°-40°	1666.6	11.5
40°-50°	1643.1	11.3
50°-60°	1255.7	8.6
60°-70°	777.1	5.3
70°-80°	441.4	3.0
80°-90°	137.8	0.9
90°-100°	439.4	3.0
100°-110°	1193.5	8.2
110°-120°	1227.1	8.4
120°-130°	981.1	6.7
130°-140°	770.9	5.3
140°-150°	591.1	4.1
150°-160°	425.1	2.9
160°-170°	260.0	1.8
170°-180°	87.6	0.6
0°-30°	2650.2	18.2
0°-40°	4316.8	29.7
0°-60°	7215.6	49.6
0°-90°	8571.9	58.9
90°-120°	2860.0	19.7
90°-150°	5203.1	35.8
90°-180°	5976.0	41.1
0°-180°	14547.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3428	3428	3428	3428	3428	
5°	3445	3408	3419	3407	3401	327
15°	3315	3281	3295	3283	3277	936
25°	3073	3036	3053	3020	3017	1414
35°	2707	2675	2684	2648	2645	1690
45°	2190	2162	2152	2114	2108	1678
55°	1435	1412	1402	1378	1373	1286
65°	770	765	774	768	768	781
75°	416	416	416	419	419	440
85°	106	112	118	118	118	124
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	

TEST NUMBER: P563973

CATALOG NUMBER: SQ4-PR1-050U-075D-835-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3427.5	3427.5	3427.5	3427.5	3427.5
2.5°	3448.7	3418.7	3427.5	3420.0	3403.9
5°	3445.2	3407.7	3418.6	3406.7	3400.9
7.5°	3418.6	3381.7	3392.6	3380.8	3377.3
10°	3395.0	3360.4	3371.4	3359.4	3353.7
12.5°	3369.0	3332.1	3345.4	3331.1	3325.3
15°	3315.3	3280.7	3294.6	3282.7	3276.9
17.5°	3256.3	3219.3	3233.2	3219.5	3212.0
20°	3209.0	3174.4	3188.4	3167.6	3164.7
22.5°	3157.1	3122.4	3136.4	3108.6	3108.1
25°	3073.2	3035.7	3052.6	3020.0	3017.1
27.5°	2973.4	2938.8	2952.8	2919.6	2916.2
30°	2904.9	2870.3	2884.3	2848.7	2842.9
32.5°	2827.0	2794.7	2806.3	2770.8	2767.4
35°	2707.1	2675.4	2683.5	2648.0	2645.2
37.5°	2570.8	2541.9	2546.6	2507.5	2504.6
40°	2473.9	2445.1	2447.4	2406.0	2403.1
42.5°	2367.6	2338.8	2336.4	2295.0	2292.1
45°	2190.5	2161.7	2152.1	2113.6	2107.9
47.5°	1988.6	1959.7	1941.9	1910.6	1906.5
50°	1842.2	1813.3	1797.9	1771.1	1762.5
52.5°	1683.9	1655.1	1642.0	1617.6	1608.9
55°	1434.8	1411.7	1402.3	1378.5	1372.8
57.5°	1198.0	1182.4	1179.7	1156.6	1154.3
60°	1053.9	1045.3	1045.1	1024.4	1024.4
62.5°	931.1	924.8	929.3	915.7	913.4
65°	770.5	764.7	773.5	767.6	767.6
67.5°	643.6	643.6	648.9	646.5	646.5
70°	572.7	572.7	575.7	575.7	575.7
72.5°	509.0	506.6	514.3	514.2	511.9
75°	416.3	416.3	416.3	419.2	419.2
77.5°	324.1	324.7	327.1	326.5	324.1
80°	262.7	265.6	265.7	262.7	262.7
82.5°	201.3	204.2	204.3	203.6	201.3
85°	106.3	112.1	118.1	118.1	118.1
87.5°	31.3	42.3	51.4	52.5	50.2
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

TEST NUMBER: P563973

CATALOG NUMBER: SQ4-PR1-050U-075D-835-1D-UNV-STD-W-12

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)