

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: P564009

Luminaire Tested: **SQ4-PR1-050U-100D-935-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564009
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-100D-935-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15087.5 lumens
Efficiency: N/A
Efficacy: 112.3 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: Semi-Direct

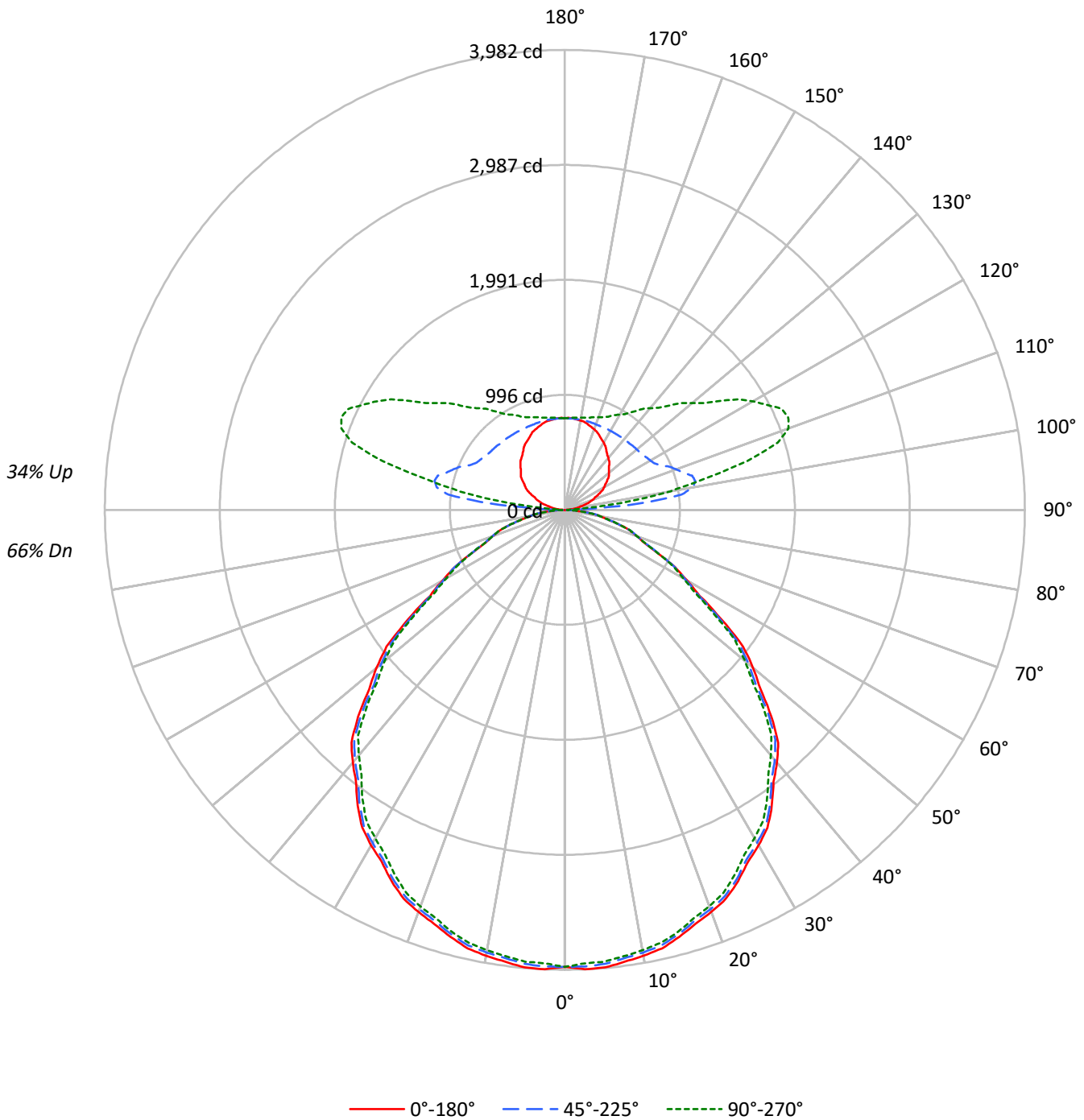
Input Watts (W): 134.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	50	30	10	0	
RCR																						
0	111	111	111	111	104	104	104	104	92	92	92	81	81	81	70	70	70	66				
1	102	97	94	90	95	92	88	85	81	79	76	72	70	68	63	62	60	56				
2	93	85	79	74	87	81	75	71	72	68	64	63	60	57	56	53	51	48				
3	85	76	68	62	80	71	65	60	64	58	54	56	52	49	50	47	44	41				
4	78	67	59	53	73	64	56	51	57	51	47	51	46	42	45	41	38	35				
5	72	60	52	46	67	57	50	44	51	45	40	46	41	37	40	37	34	31				
6	66	54	46	40	62	51	44	38	46	40	35	41	36	33	37	33	30	27				
7	61	49	41	35	58	47	39	34	42	36	31	38	33	29	34	30	26	24				
8	57	45	37	31	54	42	35	30	38	32	28	34	30	26	31	27	24	22				
9	53	41	33	28	50	39	32	27	35	29	25	32	27	23	29	24	21	19				
10	50	37	30	25	47	36	29	24	33	27	23	29	25	21	26	22	20	18				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12169	12169	12169
5°	12279	12184	12121
10°	12240	12155	12091
15°	12186	12111	12045
20°	12125	12047	11958
25°	12040	11959	11820
30°	11910	11825	11656
35°	11734	11631	11465
40°	11466	11343	11138
45°	10999	10806	10584
50°	10176	9931	9735
55°	8881	8680	8498
60°	7484	7421	7275
65°	6474	6498	6449
70°	5945	5976	5976
75°	5711	5711	5751
80°	5372	5432	5372
85°	4330	4810	4810



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	374.2	2.5
10°-20°	1070.6	7.1
20°-30°	1614.8	10.7
30°-40°	1924.1	12.8
40°-50°	1897.0	12.6
50°-60°	1449.7	9.6
60°-70°	897.2	5.9
70°-80°	509.6	3.4
80°-90°	158.1	1.0
90°-100°	381.7	2.5
100°-110°	1037.0	6.9
110°-120°	1066.3	7.1
120°-130°	852.5	5.7
130°-140°	669.8	4.4
140°-150°	513.6	3.4
150°-160°	369.4	2.4
160°-170°	225.9	1.5
170°-180°	76.1	0.5
0°-30°	3059.6	20.3
0°-40°	4983.7	33.0
0°-60°	8330.4	55.2
0°-90°	9895.2	65.6
90°-120°	2485.0	16.5
90°-150°	4521.0	30.0
90°-180°	5192.0	34.4
0°-180°	15087.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3957	3957	3957	3957	3957	
5°	3978	3934	3947	3933	3926	377
15°	3828	3788	3804	3790	3783	1080
25°	3548	3505	3524	3487	3483	1633
35°	3125	3089	3098	3057	3054	1951
45°	2529	2496	2485	2440	2434	1937
55°	1656	1630	1619	1592	1585	1484
65°	890	883	893	886	886	901
75°	481	481	481	484	484	508
85°	123	129	136	136	136	143
90°	3	10	18	23	23	9
95°	56	209	665	289	194	60
105°	184	287	1140	1736	1634	196
115°	327	397	913	1816	2069	323
125°	450	512	826	1392	1642	401
135°	542	602	803	1134	1278	419
145°	626	672	793	963	1036	393
155°	708	733	788	865	890	327
165°	767	777	790	823	826	217
175°	795	798	793	803	800	76
180°	795	795	795	795	795	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3957.0	3957.0	3957.0	3957.0	3957.0
2.5°	3981.6	3946.9	3957.0	3948.4	3929.8
5°	3977.5	3934.2	3946.8	3933.0	3926.4
7.5°	3946.8	3904.1	3916.8	3903.1	3899.1
10°	3919.5	3879.5	3892.3	3878.5	3871.8
12.5°	3889.5	3846.9	3862.3	3845.8	3839.1
15°	3827.5	3787.5	3803.7	3789.9	3783.2
17.5°	3759.3	3716.7	3732.8	3716.9	3708.2
20°	3704.8	3664.8	3681.0	3657.0	3653.7
22.5°	3644.8	3604.8	3621.0	3588.9	3588.2
25°	3548.0	3504.7	3524.2	3486.6	3483.3
27.5°	3432.8	3392.8	3409.0	3370.7	3366.7
30°	3353.8	3313.8	3329.9	3288.9	3282.2
32.5°	3263.8	3226.5	3239.9	3198.9	3194.9
35°	3125.4	3088.7	3098.1	3057.2	3053.8
37.5°	2967.9	2934.6	2940.0	2894.9	2891.6
40°	2856.1	2822.8	2825.5	2777.7	2774.3
42.5°	2733.5	2700.1	2697.3	2649.5	2646.2
45°	2529.0	2495.6	2484.6	2440.2	2433.5
47.5°	2295.8	2262.5	2242.0	2205.7	2201.1
50°	2126.8	2093.4	2075.6	2044.7	2034.8
52.5°	1944.1	1910.8	1895.7	1867.5	1857.5
55°	1656.4	1629.8	1618.9	1591.5	1584.9
57.5°	1383.1	1365.1	1362.0	1335.3	1332.6
60°	1216.8	1206.8	1206.5	1182.7	1182.7
62.5°	1075.0	1067.6	1072.9	1057.2	1054.5
65°	889.6	882.9	893.0	886.2	886.2
67.5°	743.0	743.0	749.1	746.4	746.4
70°	661.2	661.2	664.6	664.6	664.6
72.5°	587.6	584.9	593.7	593.7	591.0
75°	480.6	480.6	480.6	484.0	484.0
77.5°	374.2	374.9	377.6	376.9	374.2
80°	303.3	306.7	306.7	303.3	303.3
82.5°	232.4	235.8	235.9	235.1	232.4
85°	122.7	129.4	136.3	136.3	136.3
87.5°	36.0	48.1	58.1	59.1	56.4
90°	2.6	10.1	17.9	23.0	23.0
92.5°	23.0	104.5	181.5	78.0	66.0
95°	56.3	208.8	664.8	289.3	194.3
97.5°	93.1	230.6	1019.2	792.9	556.9
100°	117.6	245.1	1127.6	1143.1	923.1
102.5°	142.2	259.7	1156.3	1413.7	1219.7
105°	184.1	286.6	1140.4	1736.4	1633.9
107.5°	227.6	318.1	1074.5	1903.1	1931.6
110°	258.3	340.8	1025.4	1935.9	2058.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	284.9	363.4	976.3	1908.7	2093.2
115°	327.3	397.3	912.9	1816.1	2068.6
117.5°	367.2	434.2	872.5	1684.9	1969.4
120°	393.8	458.8	854.0	1596.9	1879.4
122.5°	416.3	481.3	841.8	1508.7	1781.2
125°	450.0	512.5	825.9	1391.6	1641.6
127.5°	480.2	542.2	817.2	1302.8	1517.3
130°	498.6	558.6	813.1	1247.1	1439.6
132.5°	517.0	577.0	809.0	1199.5	1370.0
135°	542.1	602.1	802.9	1133.5	1278.5
137.5°	569.2	623.7	799.8	1075.2	1197.2
140°	585.6	638.1	797.8	1038.1	1148.1
142.5°	601.9	650.4	795.7	1009.0	1101.0
145°	626.5	671.5	792.7	963.1	1035.6
147.5°	654.1	692.6	790.1	926.9	983.9
150°	672.5	705.0	790.1	906.2	951.2
152.5°	686.8	715.3	788.1	887.6	924.6
155°	708.3	733.3	787.6	864.8	889.8
157.5°	729.3	748.8	787.6	849.4	868.4
160°	741.5	759.0	787.6	839.0	854.0
162.5°	753.8	767.3	789.6	830.8	841.8
165°	767.1	777.1	790.1	823.4	825.9
167.5°	780.9	785.9	792.7	814.7	816.7
170°	785.0	790.0	792.7	810.6	810.6
172.5°	789.1	792.1	792.7	806.5	806.5
175°	795.2	797.7	792.7	802.8	800.3
177.5°	797.3	797.3	791.1	799.2	795.2
180°	795.2	795.2	795.2	795.2	795.2

(END OF REPORT)