

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: P564701

Luminaire Tested: **SQ4-PW1-050U-125D-930-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564701
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, G2-2106-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PW1-050U-125D-930-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16260.9 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Direct

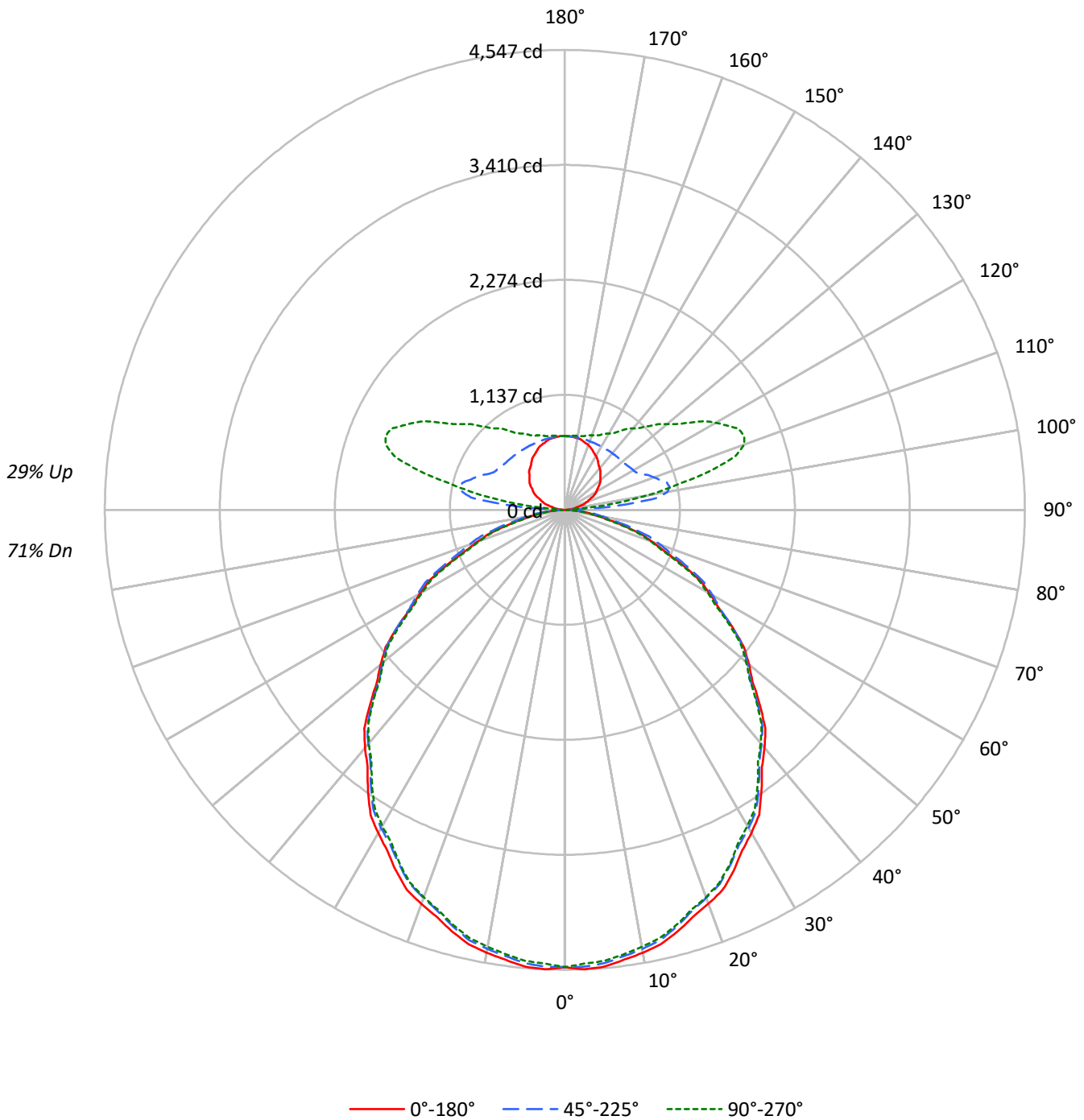
Input Watts (W): 167
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	112	112	112	112	106	106	106	106	95	95	95	85	85	85	75	75	75	71
1	103	98	94	91	97	93	90	86	84	81	78	75	73	71	67	65	64	60
2	94	86	80	74	88	82	76	71	73	69	65	66	62	59	59	56	54	50
3	85	76	68	62	81	72	65	60	65	59	55	58	54	50	52	49	46	43
4	78	67	59	53	74	64	56	51	58	52	47	52	47	43	47	43	40	37
5	72	60	52	45	68	57	49	44	52	45	41	47	42	38	42	38	35	32
6	66	54	46	40	63	51	44	38	47	40	36	42	37	33	38	34	31	28
7	61	49	41	35	58	47	39	34	42	36	32	39	33	29	35	31	27	25
8	57	44	36	31	54	43	35	30	39	33	28	35	30	26	32	28	24	22
9	53	41	33	28	50	39	32	27	36	30	25	33	27	24	30	25	22	20
10	50	37	30	25	47	36	29	24	33	27	23	30	25	21	28	23	20	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13904	13904	13904
5°	13994	13884	13822
10°	13882	13770	13696
15°	13735	13583	13532
20°	13571	13362	13337
25°	13382	13138	13098
30°	13099	12901	12816
35°	12727	12547	12472
40°	12330	12138	12090
45°	11850	11694	11642
50°	11359	11264	11187
55°	10829	10829	10658
60°	10168	10364	9996
65°	9305	9769	9073
70°	8202	8990	7987
75°	7005	8047	6816
80°	5432	6773	5503
85°	3515	5201	4640



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	425.7	2.6
10°-20°	1202.0	7.4
20°-30°	1782.9	11.0
30°-40°	2086.2	12.8
40°-50°	2076.9	12.8
50°-60°	1793.5	11.0
60°-70°	1291.0	7.9
70°-80°	677.0	4.2
80°-90°	170.6	1.0
90°-100°	349.6	2.2
100°-110°	949.7	5.8
110°-120°	976.5	6.0
120°-130°	780.7	4.8
130°-140°	613.5	3.8
140°-150°	470.4	2.9
150°-160°	338.3	2.1
160°-170°	206.9	1.3
170°-180°	69.7	0.4
0°-30°	3410.6	21.0
0°-40°	5496.8	33.8
0°-60°	9367.1	57.6
0°-90°	11505.7	70.8
90°-120°	2275.9	14.0
90°-150°	4140.4	25.5
90°-180°	4755.0	29.2
0°-180°	16260.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4521	4521	4521	4521	4521	
5°	4533	4482	4497	4485	4477	429
15°	4314	4259	4266	4258	4250	1216
25°	3944	3877	3872	3848	3860	1813
35°	3390	3343	3342	3310	3322	2119
45°	2725	2701	2689	2681	2677	2102
55°	2020	2016	2020	1992	1988	1802
65°	1279	1318	1342	1290	1247	1267
75°	590	644	677	632	574	632
85°	100	131	147	139	132	131
90°	2	9	16	21	21	7
95°	52	191	609	265	178	55
105°	169	262	1044	1590	1496	179
115°	300	364	836	1663	1894	296
125°	412	469	756	1274	1503	367
135°	496	551	735	1038	1171	384
145°	574	615	726	882	948	360
155°	649	672	721	792	815	299
165°	702	712	724	754	756	198
175°	728	731	726	735	733	69
180°	728	728	728	728	728	

TEST NUMBER: P564701

CATALOG NUMBER: SQ4-PW1-050U-125D-930-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4521.1	4521.1	4521.1	4521.1	4521.1
2.5°	4546.6	4509.2	4521.1	4511.0	4489.2
5°	4533.0	4482.4	4497.2	4485.1	4477.3
7.5°	4486.8	4440.1	4451.0	4438.1	4433.5
10°	4445.4	4398.7	4409.6	4393.4	4385.7
12.5°	4397.6	4347.8	4358.6	4342.5	4337.9
15°	4314.0	4259.4	4266.2	4258.0	4250.2
17.5°	4216.8	4161.5	4162.6	4149.8	4148.3
20°	4146.7	4088.2	4082.9	4067.2	4075.0
22.5°	4070.2	4008.6	4003.3	3981.2	3992.1
25°	3943.5	3877.3	3871.8	3848.2	3859.9
27.5°	3796.9	3731.5	3731.6	3698.4	3710.9
30°	3688.6	3626.3	3632.8	3593.3	3608.9
32.5°	3573.9	3517.8	3521.3	3481.8	3497.4
35°	3389.8	3343.1	3342.0	3310.4	3322.1
37.5°	3201.8	3160.5	3154.0	3135.8	3138.9
40°	3071.2	3036.1	3023.4	3011.4	3011.4
42.5°	2934.1	2902.2	2889.5	2880.7	2877.6
45°	2724.6	2701.2	2688.8	2680.7	2676.8
47.5°	2517.5	2495.7	2484.8	2479.1	2475.2
50°	2374.1	2358.5	2354.2	2342.1	2338.2
52.5°	2230.7	2221.3	2217.1	2201.9	2198.0
55°	2019.6	2015.7	2019.6	1991.6	1987.7
57.5°	1799.7	1805.9	1818.8	1781.1	1771.8
60°	1653.1	1668.7	1685.0	1640.8	1625.2
62.5°	1503.3	1528.2	1551.1	1500.4	1478.6
65°	1278.7	1317.6	1342.4	1289.6	1246.8
67.5°	1062.0	1110.3	1140.0	1083.2	1034.9
70°	912.2	966.7	999.8	942.8	888.3
72.5°	781.5	842.3	869.2	815.3	760.8
75°	589.5	644.1	677.2	632.0	573.6
77.5°	418.3	469.7	497.1	457.8	409.5
80°	306.7	361.2	382.4	349.6	310.7
82.5°	217.5	262.7	277.2	257.5	231.0
85°	99.6	130.7	147.4	139.2	131.5
87.5°	26.0	49.1	63.8	64.8	67.9
90°	2.3	9.2	16.4	21.1	21.1
92.5°	21.1	95.7	166.3	71.4	60.4
95°	51.5	191.2	608.9	265.0	178.0
97.5°	85.2	211.2	933.4	726.2	510.0
100°	107.7	224.5	1032.7	1046.9	845.4
102.5°	130.2	237.8	1059.0	1294.7	1117.0
105°	168.6	262.5	1044.4	1590.3	1496.4
107.5°	208.4	291.3	984.0	1742.9	1769.0
110°	236.5	312.1	939.1	1772.9	1885.1

TEST NUMBER: P564701

CATALOG NUMBER: SQ4-PW1-050U-125D-930-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	260.9	332.8	894.1	1748.0	1917.0
115°	299.7	363.9	836.0	1663.2	1894.5
117.5°	336.3	397.6	799.0	1543.1	1803.6
120°	360.6	420.2	782.2	1462.5	1721.2
122.5°	381.2	440.8	770.9	1381.7	1631.3
125°	412.2	469.4	756.4	1274.4	1503.4
127.5°	439.8	496.6	748.4	1193.2	1389.6
130°	456.6	511.6	744.7	1142.1	1318.4
132.5°	473.5	528.5	740.9	1098.6	1254.7
135°	496.5	551.4	735.3	1038.1	1170.9
137.5°	521.3	571.2	732.5	984.7	1096.4
140°	536.3	584.4	730.6	950.7	1051.5
142.5°	551.3	595.7	728.8	924.1	1008.4
145°	573.7	615.0	726.0	882.0	948.4
147.5°	599.0	634.3	723.6	848.9	901.1
150°	615.9	645.7	723.6	829.9	871.1
152.5°	629.0	655.1	721.7	812.9	846.8
155°	648.7	671.6	721.3	792.0	814.9
157.5°	667.9	685.7	721.3	777.9	795.3
160°	679.1	695.1	721.3	768.4	782.2
162.5°	690.4	702.7	723.1	760.8	770.9
165°	702.5	711.7	723.6	754.1	756.4
167.5°	715.2	719.8	726.0	746.1	748.0
170°	718.9	723.5	726.0	742.3	742.3
172.5°	722.7	725.4	726.0	738.6	738.6
175°	728.3	730.6	726.0	735.3	733.0
177.5°	730.2	730.2	724.5	732.0	728.3
180°	728.3	728.3	728.3	728.3	728.3

(END OF REPORT)