

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: P562689

Luminaire Tested: **SQ4-PC3-050U-125D-935-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562689
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, 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-PC3-050U-125D-935-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1250 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: 18015.5 lumens
Efficiency: N/A
Efficacy: 107.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Direct

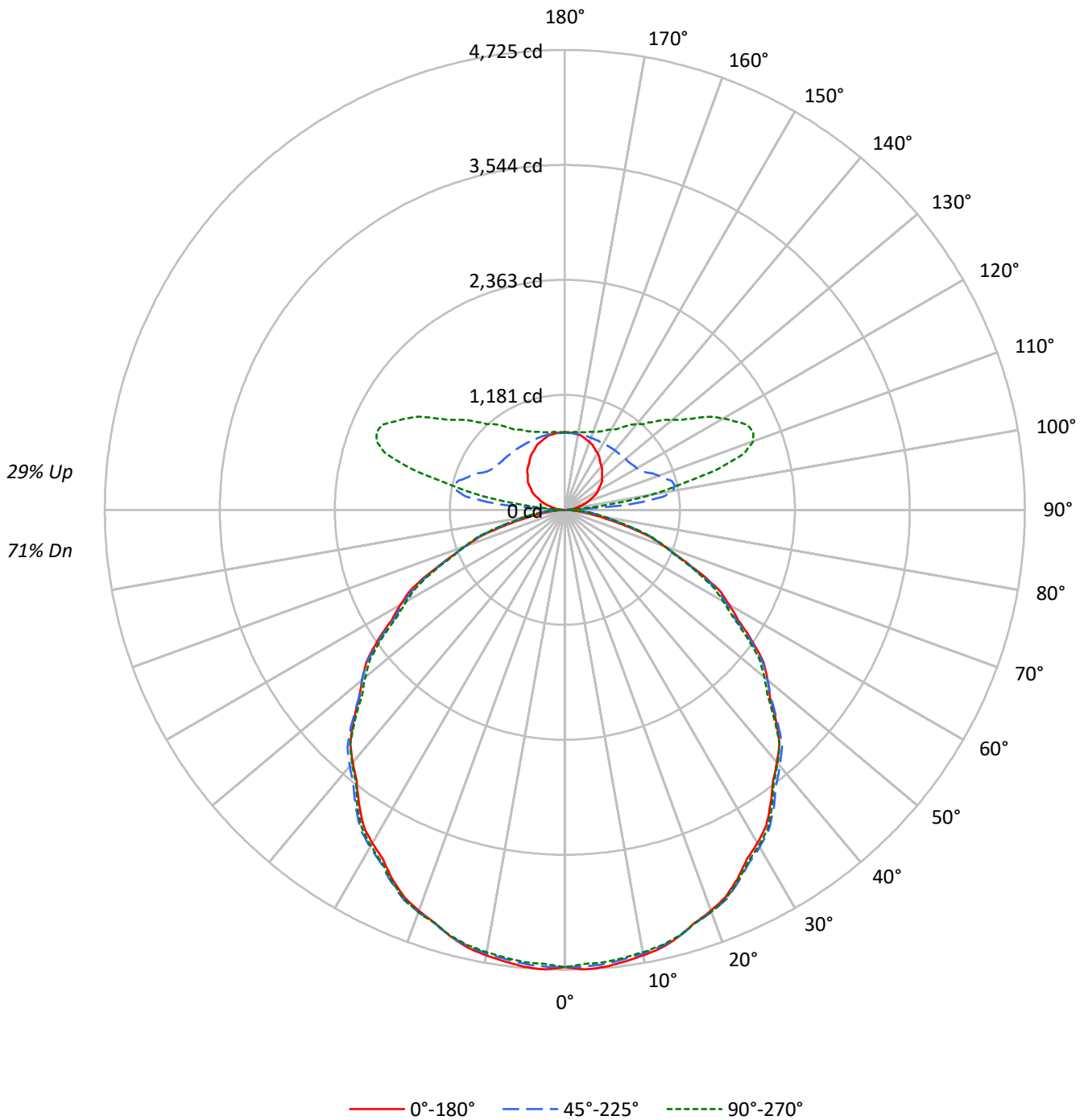
Input Watts (W): 167
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	76	76	76	71
1	103	98	94	91	97	93	90	86	84	81	79	75	73	71	67	65	64	60
2	93	86	79	74	88	81	76	71	73	69	65	66	62	59	59	56	54	50
3	85	75	68	62	80	72	65	59	65	59	55	58	54	50	52	49	46	43
4	78	67	59	52	74	64	56	50	58	51	47	52	47	43	47	43	40	37
5	72	60	51	45	68	57	49	43	52	45	40	47	41	37	42	38	34	32
6	66	54	45	39	62	51	43	38	46	40	35	42	37	33	38	34	30	28
7	61	48	40	34	58	46	39	33	42	36	31	38	33	29	35	30	27	25
8	57	44	36	30	54	42	35	30	39	32	28	35	30	26	32	27	24	22
9	53	40	33	27	50	39	31	26	35	29	25	32	27	23	29	25	22	20
10	50	37	30	25	47	36	29	24	33	27	22	30	25	21	27	23	20	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14446	14446	14446
5°	14555	14461	14408
10°	14520	14452	14411
15°	14444	14444	14430
20°	14348	14391	14391
25°	14213	14316	14272
30°	14040	14210	14148
35°	13831	14043	13945
40°	13602	13795	13655
45°	13355	13450	13242
50°	13006	13006	12798
55°	12593	12430	12244
60°	11985	11744	11557
65°	11078	10857	10761
70°	9700	9778	9738
75°	7804	8631	8682
80°	5547	7318	7394
85°	3377	6140	6140



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	444.6	2.5
10°-20°	1275.8	7.1
20°-30°	1932.0	10.7
30°-40°	2316.2	12.9
40°-50°	2361.7	13.1
50°-60°	2061.6	11.4
60°-70°	1475.9	8.2
70°-80°	760.2	4.2
80°-90°	195.3	1.1
90°-100°	381.7	2.1
100°-110°	1037.0	5.8
110°-120°	1066.3	5.9
120°-130°	852.5	4.7
130°-140°	669.8	3.7
140°-150°	513.6	2.9
150°-160°	369.4	2.1
160°-170°	225.9	1.3
170°-180°	76.1	0.4
0°-30°	3652.3	20.3
0°-40°	5968.5	33.1
0°-60°	10391.8	57.7
0°-90°	12823.2	71.2
90°-120°	2485.0	13.8
90°-150°	4521.0	25.1
90°-180°	5192.0	28.8
0°-180°	18015.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4697	4697	4697	4697	4697	
5°	4715	4668	4684	4671	4667	448
15°	4536	4498	4536	4536	4532	1279
25°	4188	4159	4219	4206	4206	1928
35°	3684	3676	3740	3714	3714	2304
45°	3071	3062	3092	3053	3045	2364
55°	2349	2319	2318	2284	2284	2094
65°	1522	1488	1492	1479	1479	1506
75°	657	686	726	731	731	710
85°	96	147	174	178	174	130
90°	3	10	18	23	23	8
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°	4697.4	4697.4	4697.4	4697.4	4697.4
2.5°	4725.2	4684.4	4697.4	4686.6	4669.6
5°	4714.8	4668.0	4684.4	4671.2	4667.0
7.5°	4680.9	4634.1	4655.6	4646.9	4642.6
10°	4649.6	4602.8	4627.8	4619.0	4614.8
12.5°	4607.8	4564.4	4593.0	4584.3	4583.4
15°	4536.5	4498.2	4536.5	4536.4	4532.1
17.5°	4446.9	4412.0	4453.0	4455.5	4453.0
20°	4384.2	4346.0	4397.3	4393.0	4397.3
22.5°	4307.7	4276.2	4331.2	4320.0	4324.2
25°	4188.5	4158.7	4219.0	4205.9	4205.9
27.5°	4047.6	4026.3	4092.0	4078.0	4078.0
30°	3953.6	3932.4	4001.5	3984.1	3984.1
32.5°	3849.3	3834.8	3900.6	3879.7	3879.7
35°	3684.0	3675.5	3740.5	3714.4	3714.4
37.5°	3513.5	3505.8	3564.8	3533.3	3523.1
40°	3388.2	3384.0	3436.1	3401.3	3401.3
42.5°	3263.0	3258.7	3303.8	3262.1	3262.1
45°	3070.7	3062.2	3092.5	3053.1	3044.6
47.5°	2861.1	2852.6	2871.5	2828.8	2824.5
50°	2718.4	2709.9	2718.4	2679.2	2674.9
52.5°	2572.3	2557.0	2558.3	2519.2	2518.3
55°	2348.7	2318.9	2318.3	2283.5	2283.5
57.5°	2112.1	2073.0	2076.4	2046.8	2042.5
60°	1948.6	1906.0	1909.4	1883.2	1879.0
62.5°	1788.5	1739.2	1749.3	1719.8	1718.9
65°	1522.3	1488.3	1491.9	1478.8	1478.8
67.5°	1266.6	1235.1	1257.9	1247.4	1246.6
70°	1078.7	1057.4	1087.4	1087.3	1083.0
72.5°	904.7	903.8	941.2	941.3	943.8
75°	656.8	686.5	726.4	730.7	730.7
77.5°	438.4	491.2	535.0	536.7	535.9
80°	313.2	372.7	413.2	421.8	417.5
82.5°	212.3	275.2	308.8	317.4	313.2
85°	95.7	146.7	174.0	178.2	174.0
87.5°	28.3	60.5	73.2	74.0	67.2
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)