

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: P563365

Luminaire Tested: **SQ4-PP3-050U-125D-940-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563365
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-125D-940-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

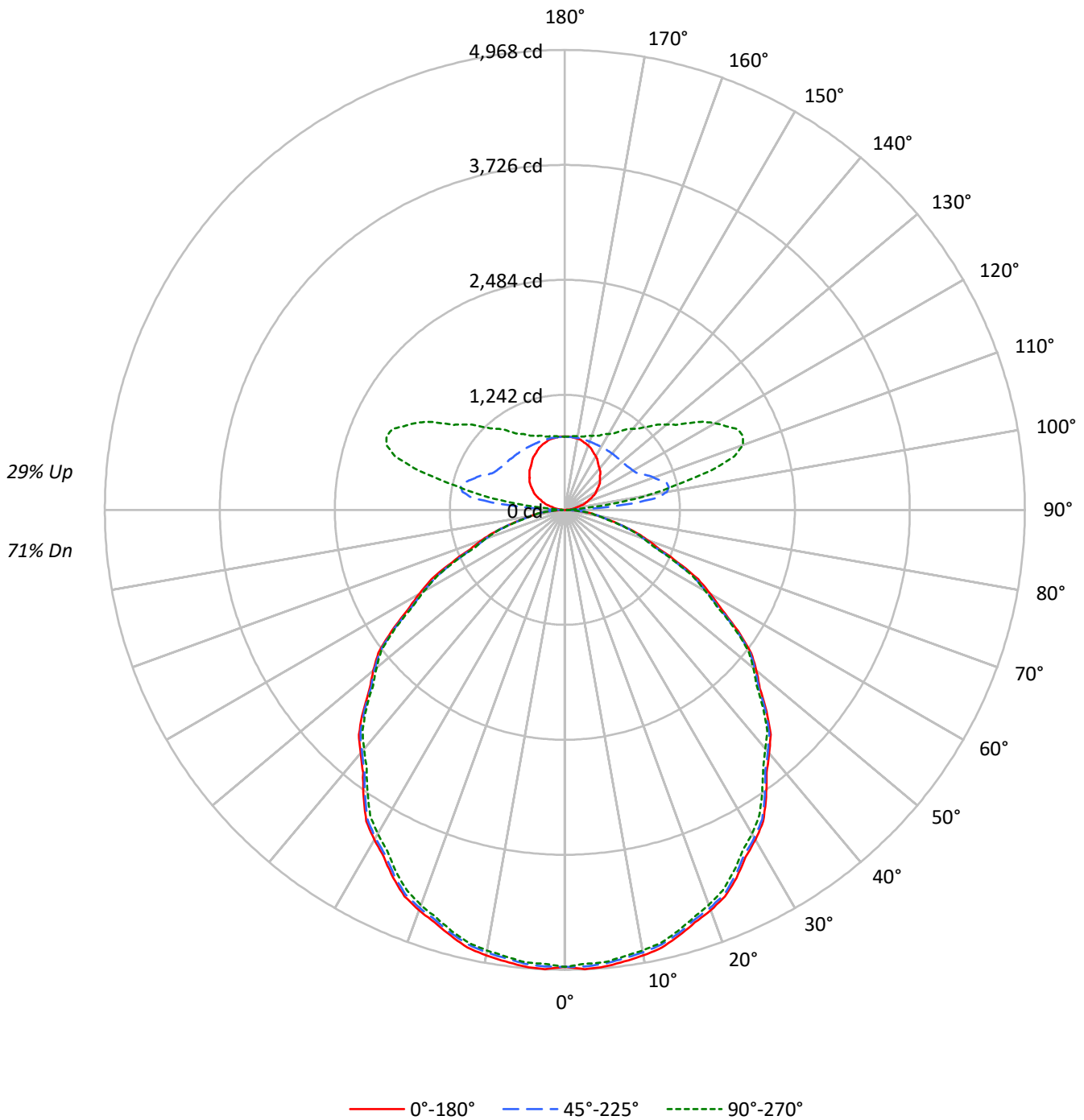
Lumens per Lamp: N/A
Luminaire Lumens: 17803.2 lumens
Efficiency: N/A
Efficacy: 106.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 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	95	91	97	93	90	87	84	81	79	75	73	71	67	66	64	60
2	94	86	80	75	89	82	76	72	74	69	66	66	63	60	59	57	55	51
3	86	76	69	63	81	72	66	60	65	60	56	59	55	51	53	50	47	43
4	79	68	59	53	74	64	57	51	58	52	48	53	48	44	47	44	40	37
5	72	60	52	46	68	58	50	44	52	46	41	47	42	38	43	39	35	33
6	67	54	46	40	63	52	44	39	47	41	36	43	38	34	39	34	31	29
7	62	49	41	35	58	47	39	34	43	37	32	39	34	30	35	31	28	25
8	57	45	37	31	54	43	35	30	39	33	29	36	31	27	33	28	25	23
9	54	41	33	28	51	39	32	27	36	30	26	33	28	24	30	26	22	20
10	50	38	30	25	48	36	29	25	33	27	23	31	25	22	28	24	20	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15181	15181	15181
5°	15293	15199	15146
10°	15267	15159	15091
15°	15166	15083	15001
20°	15065	14980	14867
25°	14886	14783	14637
30°	14611	14534	14350
35°	14229	14131	13952
40°	13773	13687	13530
45°	13398	13303	13171
50°	12916	12833	12709
55°	12248	12085	11993
60°	11150	10830	10777
65°	9823	9414	9382
70°	8480	8130	8130
75°	7299	7197	7094
80°	6436	6512	6360
85°	5039	5494	5494



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	466.8	2.6
10°-20°	1332.8	7.5
20°-30°	1996.4	11.2
30°-40°	2341.6	13.2
40°-50°	2348.9	13.2
50°-60°	2003.8	11.3
60°-70°	1306.8	7.3
70°-80°	655.6	3.7
80°-90°	184.5	1.0
90°-100°	379.8	2.1
100°-110°	1031.8	5.8
110°-120°	1060.8	6.0
120°-130°	848.2	4.8
130°-140°	666.4	3.7
140°-150°	511.0	2.9
150°-160°	367.5	2.1
160°-170°	224.7	1.3
170°-180°	75.7	0.4
0°-30°	3796.0	21.3
0°-40°	6137.6	34.5
0°-60°	10490.4	58.9
0°-90°	12637.3	71.0
90°-120°	2472.4	13.9
90°-150°	4498.0	25.3
90°-180°	5166.0	29.0
0°-180°	17803.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4936	4936	4936	4936	4936	
5°	4954	4907	4923	4906	4906	470
15°	4763	4717	4737	4720	4711	1344
25°	4387	4336	4357	4318	4313	2017
35°	3790	3752	3764	3721	3716	2367
45°	3080	3059	3059	3028	3028	2372
55°	2284	2276	2254	2241	2237	2030
65°	1350	1324	1294	1285	1289	1347
75°	614	614	606	601	597	666
85°	143	156	156	156	156	168
90°	2	10	18	23	23	9
95°	56	208	661	288	193	59
105°	183	285	1135	1728	1626	195
115°	326	395	908	1807	2058	321
125°	448	510	822	1384	1633	399
135°	539	599	799	1128	1272	417
145°	623	668	789	958	1030	391
155°	705	730	784	860	885	325
165°	763	773	786	819	822	215
175°	791	794	789	799	796	75
180°	791	791	791	791	791	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4936.3	4936.3	4936.3	4936.3	4936.3
2.5°	4967.5	4926.9	4936.3	4929.0	4908.7
5°	4953.7	4907.1	4923.4	4906.1	4906.1
7.5°	4919.9	4869.1	4885.3	4868.0	4867.1
10°	4888.8	4838.0	4854.1	4836.7	4832.5
12.5°	4843.8	4793.0	4812.6	4791.8	4791.0
15°	4763.3	4716.8	4737.3	4719.8	4711.4
17.5°	4672.4	4621.7	4646.5	4622.2	4618.8
20°	4603.2	4552.5	4577.3	4542.7	4542.7
22.5°	4520.2	4469.4	4497.7	4452.7	4452.7
25°	4386.9	4336.1	4356.6	4317.6	4313.4
27.5°	4228.6	4178.6	4200.0	4155.9	4155.0
30°	4114.3	4067.8	4092.7	4045.0	4040.8
32.5°	3989.7	3946.6	3964.7	3917.0	3912.7
35°	3789.9	3751.8	3763.9	3720.6	3716.3
37.5°	3579.6	3540.7	3554.5	3517.3	3515.6
40°	3430.8	3405.4	3409.2	3378.7	3370.2
42.5°	3292.3	3263.6	3267.2	3236.9	3235.2
45°	3080.4	3059.2	3058.7	3028.4	3028.4
47.5°	2855.4	2839.3	2834.6	2809.5	2808.7
50°	2699.6	2686.9	2682.3	2660.6	2656.4
52.5°	2537.0	2531.0	2516.2	2498.0	2497.2
55°	2284.3	2275.8	2254.0	2240.9	2236.7
57.5°	2010.0	1993.1	1968.5	1949.5	1952.9
60°	1812.7	1795.8	1760.8	1752.2	1752.2
62.5°	1622.4	1602.1	1567.0	1555.0	1561.8
65°	1349.8	1324.4	1293.6	1285.0	1289.2
67.5°	1102.4	1079.5	1046.1	1046.0	1042.6
70°	943.1	930.5	904.2	904.2	904.2
72.5°	801.2	795.3	776.1	776.1	772.7
75°	614.3	614.3	605.7	601.3	597.0
77.5°	460.3	462.0	457.7	453.2	445.6
80°	363.4	371.9	367.7	363.3	359.1
82.5°	273.4	281.9	281.2	273.4	272.6
85°	142.8	155.5	155.7	155.7	155.7
87.5°	38.6	53.6	58.9	60.0	63.4
90°	2.5	10.0	17.8	22.9	22.9
92.5°	22.9	104.0	180.6	77.6	65.6
95°	56.0	207.7	661.4	287.9	193.3
97.5°	92.6	229.4	1014.0	788.9	554.1
100°	117.0	243.9	1121.9	1137.3	918.4
102.5°	141.4	258.4	1150.4	1406.5	1213.5
105°	183.2	285.2	1134.6	1727.6	1625.6
107.5°	226.4	316.5	1069.0	1893.4	1921.8
110°	256.9	339.0	1020.2	1926.1	2047.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	283.4	361.5	971.3	1899.0	2082.5
115°	325.6	395.3	908.2	1806.9	2058.1
117.5°	365.3	432.0	868.0	1676.3	1959.4
120°	391.8	456.5	849.7	1588.8	1869.9
122.5°	414.2	478.8	837.5	1501.0	1772.2
125°	447.7	509.9	821.7	1384.5	1633.3
127.5°	477.8	539.5	813.1	1296.2	1509.6
130°	496.1	555.8	809.0	1240.8	1432.3
132.5°	514.4	574.1	804.9	1193.4	1363.1
135°	539.3	599.0	798.8	1127.7	1272.0
137.5°	566.3	620.5	795.8	1069.7	1191.1
140°	582.6	634.8	793.7	1032.8	1142.3
142.5°	598.9	647.1	791.7	1003.9	1095.5
145°	623.3	668.1	788.6	958.2	1030.3
147.5°	650.8	689.1	786.1	922.2	978.9
150°	669.1	701.4	786.1	901.6	946.4
152.5°	683.3	711.7	784.1	883.1	919.9
155°	704.7	729.6	783.6	860.4	885.3
157.5°	725.6	745.0	783.6	845.0	864.0
160°	737.8	755.2	783.6	834.8	849.7
162.5°	750.0	763.4	785.6	826.5	837.5
165°	763.2	773.2	786.1	819.2	821.7
167.5°	776.9	781.9	788.6	810.6	812.6
170°	781.0	786.0	788.6	806.5	806.5
172.5°	785.1	788.1	788.6	802.4	802.4
175°	791.2	793.7	788.6	798.8	796.3
177.5°	793.2	793.2	787.1	795.2	791.2
180°	791.2	791.2	791.2	791.2	791.2

(END OF REPORT)