

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: P563329

Luminaire Tested: **SQ4-PP3-050U-100D-840-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563329
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-100D-840-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17607.2 lumens
Efficiency: N/A
Efficacy: 131.0 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

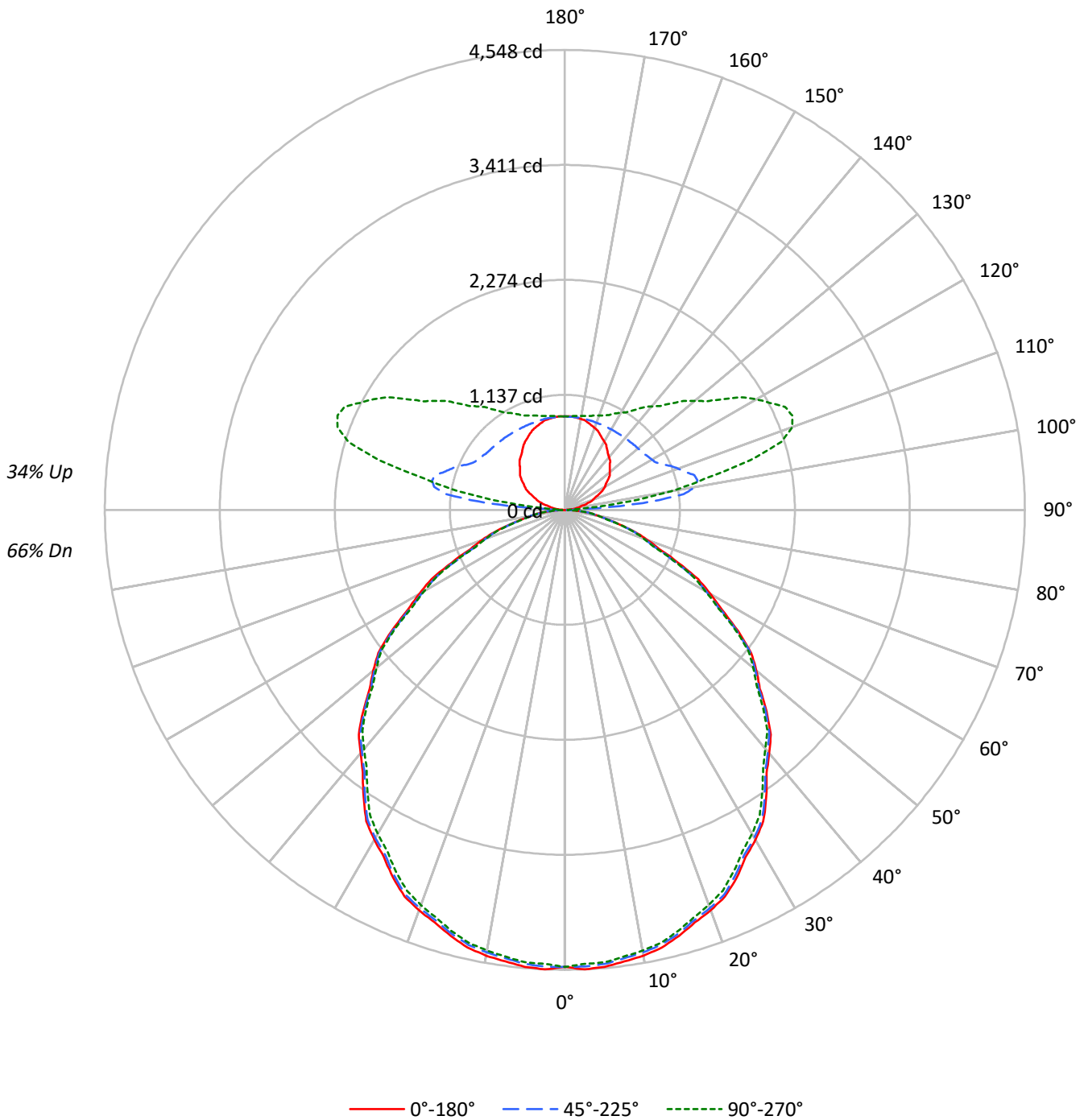
Input Watts (W): 134.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	0
RCR																		
0	111	111	111	111	104	104	104	104	92	92	92	81	81	81	71	71	71	66
1	102	97	93	90	95	92	88	85	81	79	76	72	70	68	63	61	60	56
2	93	85	79	74	87	80	75	70	72	67	64	63	60	57	56	53	51	47
3	85	75	68	62	79	71	64	59	63	58	54	56	52	49	49	46	44	40
4	78	67	59	52	73	63	56	50	56	51	46	50	46	42	44	41	38	35
5	71	60	51	45	67	56	49	43	51	44	40	45	40	36	40	36	33	30
6	66	54	45	39	62	51	43	38	46	39	35	41	36	32	36	32	29	26
7	61	48	40	35	57	46	39	33	41	35	31	37	32	28	33	29	26	23
8	57	44	36	31	53	42	35	30	38	32	27	34	29	25	30	26	23	21
9	53	40	33	27	50	38	31	27	35	29	25	31	26	23	28	24	21	19
10	49	37	30	25	47	35	29	24	32	26	22	29	24	21	26	22	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13900	13900	13900
5°	14002	13916	13867
10°	13978	13879	13817
15°	13886	13810	13734
20°	13793	13716	13612
25°	13630	13535	13401
30°	13377	13307	13138
35°	13027	12938	12775
40°	12611	12531	12388
45°	12266	12180	12060
50°	11826	11750	11636
55°	11214	11065	10980
60°	10208	9916	9868
65°	8994	8619	8590
70°	7764	7444	7444
75°	6684	6590	6495
80°	5892	5963	5823
85°	4612	5032	5032



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	427.4	2.4
10°-20°	1220.3	6.9
20°-30°	1827.8	10.4
30°-40°	2144.0	12.2
40°-50°	2150.7	12.2
50°-60°	1834.7	10.4
60°-70°	1196.5	6.8
70°-80°	600.3	3.4
80°-90°	169.7	1.0
90°-100°	443.8	2.5
100°-110°	1205.5	6.8
110°-120°	1239.5	7.0
120°-130°	991.0	5.6
130°-140°	778.7	4.4
140°-150°	597.1	3.4
150°-160°	429.4	2.4
160°-170°	262.6	1.5
170°-180°	88.5	0.5
0°-30°	3475.5	19.7
0°-40°	5619.5	31.9
0°-60°	9604.8	54.6
0°-90°	11571.3	65.7
90°-120°	2888.8	16.4
90°-150°	5255.5	29.8
90°-180°	6036.0	34.3
0°-180°	17607.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4520	4520	4520	4520	4520	
5°	4536	4493	4508	4492	4492	431
15°	4361	4319	4337	4321	4314	1230
25°	4017	3970	3989	3953	3949	1847
35°	3470	3435	3446	3406	3403	2168
45°	2820	2801	2800	2773	2773	2172
55°	2092	2084	2064	2052	2048	1859
65°	1236	1213	1184	1176	1180	1233
75°	562	562	555	550	547	610
85°	131	142	143	143	143	154
90°	3	12	21	27	27	9
95°	65	243	773	336	226	69
105°	214	333	1326	2019	1899	227
115°	380	462	1061	2111	2405	375
125°	523	596	960	1618	1908	466
135°	630	700	933	1318	1486	487
145°	728	781	922	1120	1204	457
155°	823	852	916	1005	1034	380
165°	892	903	918	957	960	252
175°	924	927	922	933	930	88
180°	924	924	924	924	924	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4519.6	4519.6	4519.6	4519.6	4519.6
2.5°	4548.1	4511.0	4519.6	4512.9	4494.3
5°	4535.5	4492.9	4507.7	4491.9	4491.9
7.5°	4504.6	4458.1	4472.9	4457.0	4456.3
10°	4476.1	4429.6	4444.4	4428.4	4424.6
12.5°	4434.9	4388.4	4406.3	4387.3	4386.5
15°	4361.2	4318.6	4337.4	4321.4	4313.7
17.5°	4278.0	4231.5	4254.2	4232.0	4228.9
20°	4214.6	4168.1	4190.9	4159.2	4159.2
22.5°	4138.6	4092.1	4118.0	4076.8	4076.8
25°	4016.6	3970.1	3988.8	3953.1	3949.2
27.5°	3871.6	3825.9	3845.4	3805.0	3804.3
30°	3767.0	3724.4	3747.2	3703.6	3699.7
32.5°	3652.9	3613.4	3630.0	3586.3	3582.4
35°	3469.9	3435.1	3446.2	3406.5	3402.6
37.5°	3277.4	3241.8	3254.4	3220.3	3218.8
40°	3141.2	3117.9	3121.4	3093.5	3085.7
42.5°	3014.4	2988.1	2991.4	2963.7	2962.1
45°	2820.3	2800.9	2800.5	2772.8	2772.8
47.5°	2614.3	2599.6	2595.3	2572.3	2571.6
50°	2471.7	2460.1	2455.9	2436.0	2432.1
52.5°	2322.8	2317.4	2303.8	2287.1	2286.4
55°	2091.5	2083.7	2063.7	2051.8	2047.9
57.5°	1840.3	1824.8	1802.3	1784.9	1788.0
60°	1659.7	1644.2	1612.2	1604.3	1604.3
62.5°	1485.4	1466.8	1434.7	1423.8	1430.0
65°	1235.9	1212.6	1184.4	1176.5	1180.4
67.5°	1009.3	988.4	957.8	957.7	954.6
70°	863.5	851.9	827.9	827.9	827.9
72.5°	733.6	728.2	710.6	710.6	707.5
75°	562.5	562.5	554.6	550.5	546.6
77.5°	421.5	423.0	419.1	415.0	408.0
80°	332.7	340.5	336.7	332.6	328.8
82.5°	250.3	258.1	257.5	250.3	249.6
85°	130.7	142.3	142.6	142.6	142.6
87.5°	35.5	49.6	54.9	56.1	59.2
90°	3.0	11.7	20.8	26.8	26.8
92.5°	26.8	121.5	211.0	90.6	76.7
95°	65.4	242.7	772.8	336.3	225.9
97.5°	108.2	268.0	1184.8	921.8	647.4
100°	136.7	285.0	1310.9	1328.8	1073.1
102.5°	165.3	301.9	1344.1	1643.4	1417.9
105°	214.0	333.2	1325.7	2018.6	1899.4
107.5°	264.5	369.8	1249.0	2212.3	2245.4
110°	300.2	396.1	1192.0	2250.4	2392.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	331.1	422.4	1134.9	2218.8	2433.2
115°	380.5	461.9	1061.2	2111.2	2404.7
117.5°	426.8	504.7	1014.2	1958.6	2289.4
120°	457.8	533.3	992.8	1856.3	2184.8
122.5°	483.9	559.5	978.5	1753.8	2070.6
125°	523.2	595.8	960.1	1617.7	1908.3
127.5°	558.2	630.3	950.0	1514.5	1763.9
130°	579.6	649.4	945.2	1449.7	1673.5
132.5°	601.0	670.8	940.5	1394.4	1592.6
135°	630.2	699.9	933.4	1317.7	1486.2
137.5°	661.7	725.0	929.8	1249.9	1391.7
140°	680.7	741.7	927.4	1206.7	1334.6
142.5°	699.7	756.1	925.0	1173.0	1279.9
145°	728.3	780.6	921.5	1119.6	1203.8
147.5°	760.4	805.1	918.5	1077.5	1143.8
150°	781.8	819.5	918.5	1053.4	1105.8
152.5°	798.4	831.5	916.1	1031.8	1074.8
155°	823.4	852.4	915.5	1005.3	1034.4
157.5°	847.7	870.4	915.5	987.4	1009.4
160°	862.0	882.4	915.5	975.4	992.8
162.5°	876.3	892.0	917.9	965.7	978.5
165°	891.7	903.4	918.5	957.2	960.1
167.5°	907.8	913.6	921.5	947.1	949.4
170°	912.5	918.4	921.5	942.3	942.3
172.5°	917.3	920.8	921.5	937.5	937.5
175°	924.4	927.3	921.5	933.3	930.4
177.5°	926.8	926.8	919.7	929.1	924.4
180°	924.4	924.4	924.4	924.4	924.4

(END OF REPORT)