

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: P563305

Luminaire Tested: **SQ4-PP3-050U-075D-840-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563305
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-075D-840-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

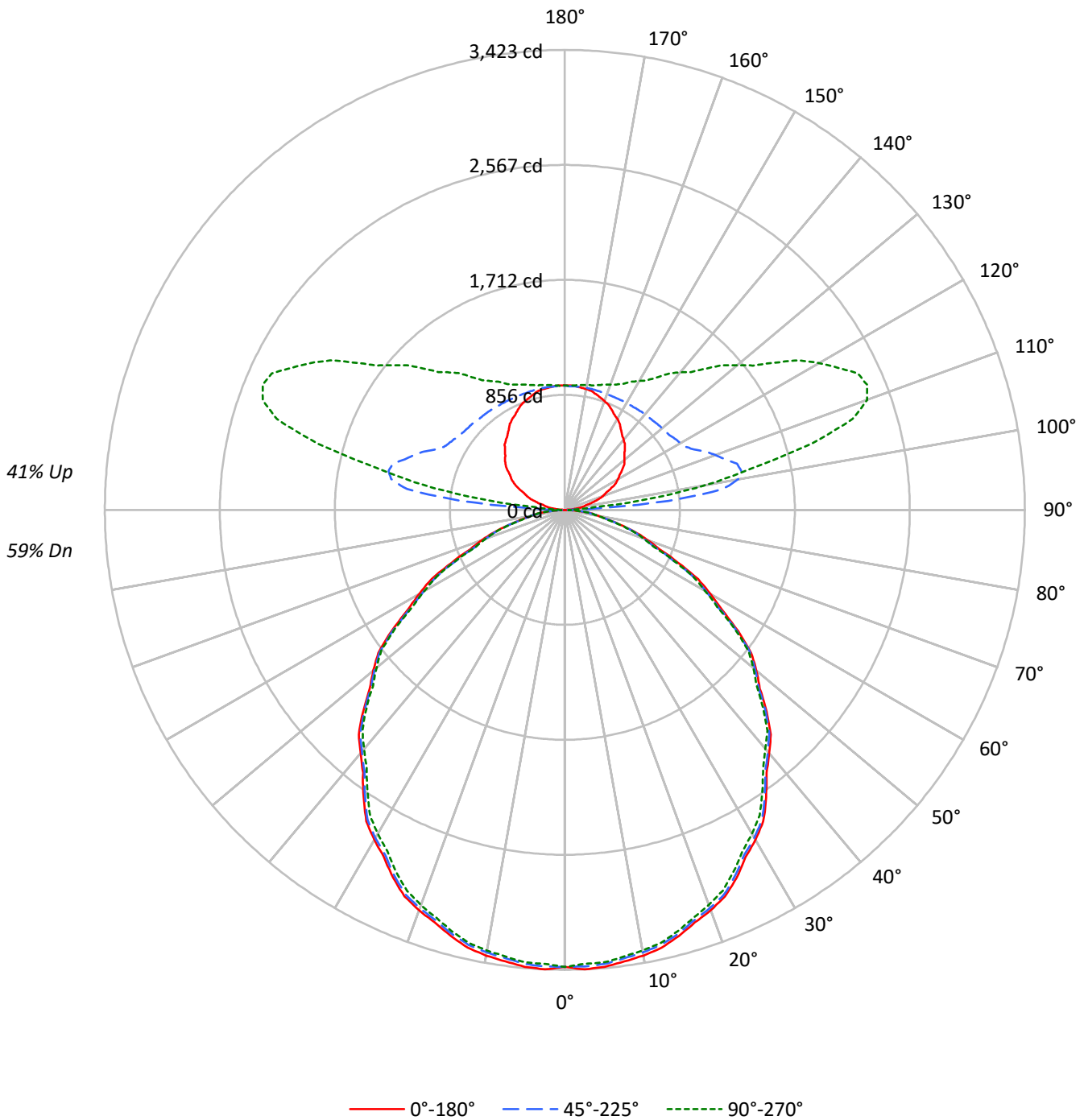
Lumens per Lamp: N/A
Luminaire Lumens: 14745.5 lumens
Efficiency: N/A
Efficacy: 139.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 105.6
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	109	109	109	109	102	102	102	102	88	88	88	76	76	76	64	64	64	59
1	100	96	92	88	93	90	86	83	78	75	73	67	65	64	57	56	55	50
2	91	84	78	73	85	79	73	69	69	64	61	59	56	54	51	49	47	42
3	83	74	67	61	78	69	63	58	61	56	51	53	49	46	45	42	40	36
4	76	66	58	52	71	62	54	49	54	48	44	47	43	39	40	37	34	31
5	70	58	50	44	65	55	48	42	48	43	38	42	38	34	36	33	30	27
6	65	53	44	38	60	49	42	37	44	38	33	38	33	30	33	29	27	24
7	60	47	39	34	56	45	37	32	40	34	29	35	30	26	30	26	24	21
8	56	43	35	30	52	41	34	29	36	30	26	32	27	24	28	24	21	19
9	52	39	32	27	48	37	30	26	33	27	23	29	25	21	26	22	19	17
10	48	36	29	24	45	34	28	23	31	25	21	27	22	19	24	20	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10461	10461	10461
5°	10538	10473	10437
10°	10520	10446	10399
15°	10450	10393	10336
20°	10381	10323	10244
25°	10258	10187	10086
30°	10068	10015	9888
35°	9805	9737	9614
40°	9491	9431	9323
45°	9232	9167	9076
50°	8901	8843	8758
55°	8440	8328	8264
60°	7683	7463	7426
65°	6768	6487	6465
70°	5844	5603	5603
75°	5030	4960	4888
80°	4435	4488	4382
85°	3472	3786	3786



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	321.6	2.2
10°-20°	918.4	6.2
20°-30°	1375.6	9.3
30°-40°	1613.6	10.9
40°-50°	1618.6	11.0
50°-60°	1380.8	9.4
60°-70°	900.5	6.1
70°-80°	451.8	3.1
80°-90°	128.6	0.9
90°-100°	443.8	3.0
100°-110°	1205.5	8.2
110°-120°	1239.5	8.4
120°-130°	991.0	6.7
130°-140°	778.7	5.3
140°-150°	597.1	4.0
150°-160°	429.4	2.9
160°-170°	262.6	1.8
170°-180°	88.5	0.6
0°-30°	2615.7	17.7
0°-40°	4229.3	28.7
0°-60°	7228.7	49.0
0°-90°	8709.6	59.1
90°-120°	2888.8	19.6
90°-150°	5255.5	35.6
90°-180°	6036.0	40.9
0°-180°	14745.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3402	3402	3402	3402	3402	
5°	3414	3381	3393	3381	3381	324
15°	3282	3250	3264	3252	3246	926
25°	3023	2988	3002	2975	2972	1390
35°	2612	2585	2594	2564	2561	1631
45°	2123	2108	2108	2087	2087	1634
55°	1574	1568	1553	1544	1541	1399
65°	930	913	891	886	888	928
75°	423	423	417	414	411	459
85°	98	107	107	107	107	116
90°	3	12	21	27	27	8
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°	3401.5	3401.5	3401.5	3401.5	3401.5
2.5°	3423.0	3395.0	3401.5	3396.4	3382.5
5°	3413.5	3381.4	3392.6	3380.7	3380.7
7.5°	3390.2	3355.2	3366.4	3354.4	3353.8
10°	3368.7	3333.8	3344.9	3332.9	3330.0
12.5°	3337.7	3302.8	3316.3	3301.9	3301.4
15°	3282.3	3250.2	3264.4	3252.3	3246.5
17.5°	3219.7	3184.7	3201.8	3185.0	3182.7
20°	3172.0	3137.0	3154.1	3130.2	3130.2
22.5°	3114.7	3079.8	3099.2	3068.2	3068.2
25°	3022.9	2987.9	3002.1	2975.2	2972.2
27.5°	2913.8	2879.4	2894.1	2863.7	2863.1
30°	2835.1	2803.0	2820.2	2787.3	2784.4
32.5°	2749.3	2719.5	2732.0	2699.1	2696.2
35°	2611.5	2585.3	2593.6	2563.8	2560.8
37.5°	2466.6	2439.8	2449.3	2423.7	2422.5
40°	2364.1	2346.6	2349.2	2328.2	2322.3
42.5°	2268.7	2248.9	2251.4	2230.5	2229.3
45°	2122.6	2108.0	2107.7	2086.8	2086.8
47.5°	1967.6	1956.5	1953.3	1936.0	1935.4
50°	1860.3	1851.5	1848.3	1833.4	1830.4
52.5°	1748.2	1744.1	1733.9	1721.3	1720.7
55°	1574.1	1568.2	1553.2	1544.2	1541.3
57.5°	1385.1	1373.4	1356.4	1343.4	1345.7
60°	1249.1	1237.5	1213.3	1207.4	1207.4
62.5°	1117.9	1104.0	1079.8	1071.5	1076.2
65°	930.1	912.6	891.4	885.5	888.4
67.5°	759.6	743.9	720.9	720.8	718.5
70°	649.9	641.2	623.1	623.1	623.1
72.5°	552.1	548.0	534.8	534.8	532.4
75°	423.3	423.3	417.4	414.3	411.4
77.5°	317.2	318.4	315.4	312.3	307.1
80°	250.4	256.2	253.4	250.4	247.4
82.5°	188.4	194.2	193.8	188.4	187.8
85°	98.4	107.1	107.3	107.3	107.3
87.5°	26.8	37.9	42.3	43.6	45.9
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)