

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: P563428

Luminaire Tested: **SQ4-PP3-075U-100D-840-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563428  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-PP3-075U-100D-840-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

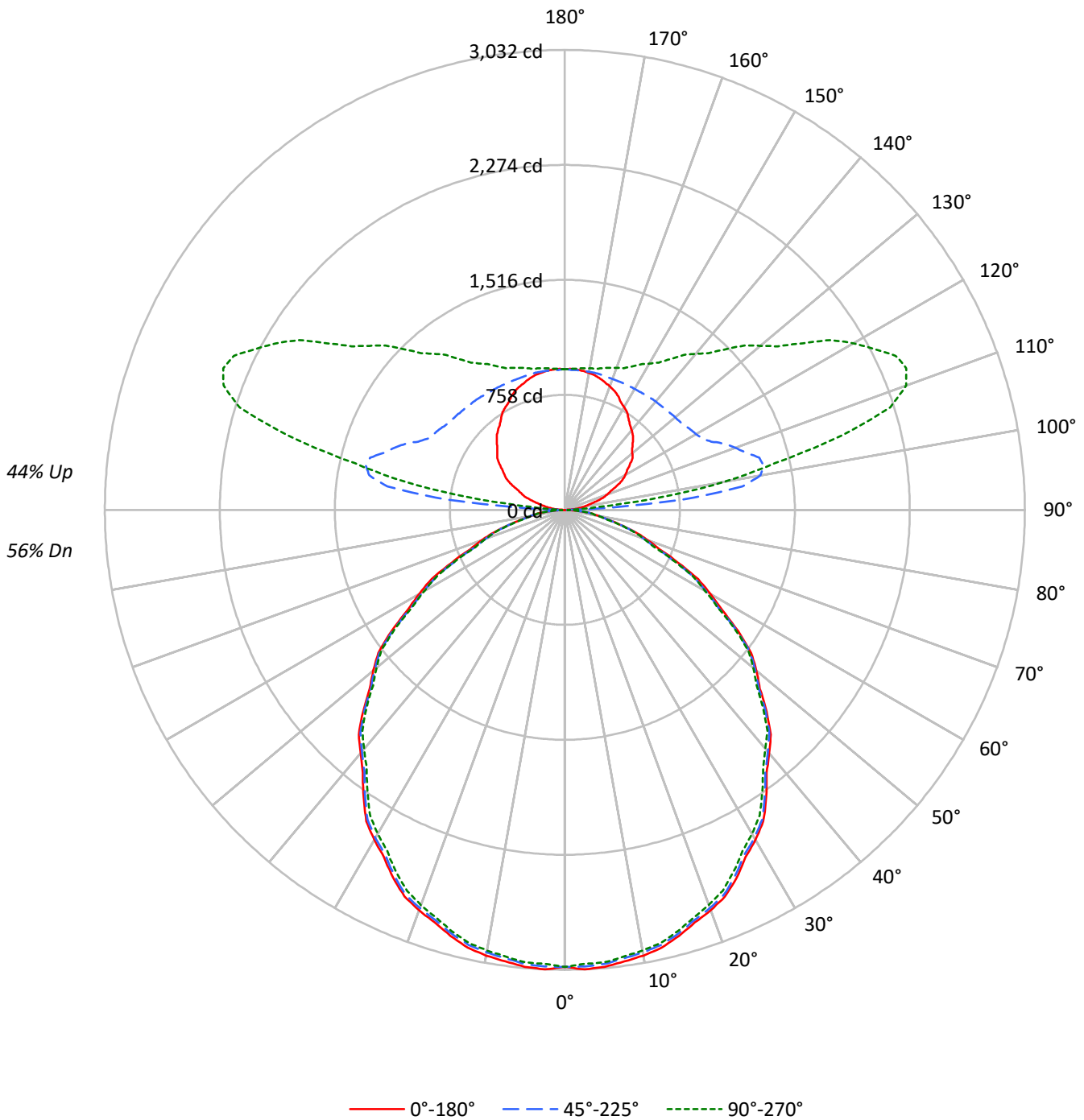
Lumens per Lamp: N/A  
Luminaire Lumens: 13762.0 lumens  
Efficiency: N/A  
Efficacy: 127.1 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 108.3  
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	101	101	101	101	87	87	87	74	74	74	62	62	62	56
1	99	95	91	88	92	89	85	82	76	74	72	65	63	62	55	54	53	48
2	91	83	77	72	84	78	72	68	67	63	60	58	55	52	49	46	45	40
3	83	73	66	60	77	69	62	57	59	54	50	51	47	44	43	40	38	34
4	76	65	57	51	70	61	54	48	53	47	43	46	41	38	39	36	33	30
5	70	58	50	44	65	54	47	42	47	42	37	41	36	33	35	31	29	26
6	64	52	44	38	60	49	42	36	43	37	33	37	32	29	32	28	25	23
7	59	47	39	33	55	44	37	32	39	33	29	34	29	26	29	25	23	20
8	55	43	35	30	51	40	33	28	35	30	26	31	26	23	27	23	20	18
9	51	39	32	26	48	37	30	25	32	27	23	28	24	21	24	21	18	16
10	48	36	29	24	45	34	27	23	30	24	21	26	22	19	23	19	17	15

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	13900	13900	13900
5°	14001	13916	13867
10°	13978	13879	13817
15°	13886	13810	13734
20°	13793	13716	13612
25°	13629	13535	13401
30°	13377	13307	13138
35°	13027	12938	12775
40°	12611	12531	12388
45°	12266	12180	12059
50°	11826	11750	11636
55°	11214	11065	10981
60°	10209	9916	9867
65°	8993	8619	8589
70°	7765	7444	7444
75°	6684	6589	6495
80°	5892	5964	5823
85°	4610	5034	5034



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	284.9	2.1
10°-20°	813.5	5.9
20°-30°	1218.6	8.9
30°-40°	1429.3	10.4
40°-50°	1433.8	10.4
50°-60°	1223.1	8.9
60°-70°	797.7	5.8
70°-80°	400.2	2.9
80°-90°	113.1	0.8
90°-100°	437.9	3.2
100°-110°	1204.6	8.8
110°-120°	1243.4	9.0
120°-130°	996.2	7.2
130°-140°	782.5	5.7
140°-150°	599.6	4.4
150°-160°	431.1	3.1
160°-170°	263.6	1.9
170°-180°	88.9	0.6
0°-30°	2317.0	16.8
0°-40°	3746.3	27.2
0°-60°	6403.2	46.5
0°-90°	7714.2	56.1
90°-120°	2885.9	21.0
90°-150°	5264.2	38.3
90°-180°	6048.0	43.9
0°-180°	13762.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3013	3013	3013	3013	3013	
5°	3024	2995	3005	2995	2995	287
15°	2908	2879	2892	2881	2876	820
25°	2678	2647	2659	2635	2633	1231
35°	2313	2290	2297	2271	2268	1445
45°	1880	1867	1867	1848	1848	1448
55°	1394	1389	1376	1368	1365	1239
65°	824	808	790	784	787	822
75°	375	375	370	367	364	407
85°	87	95	95	95	95	102
90°	2	8	14	18	18	8
95°	65	239	774	331	211	69
105°	215	331	1327	2022	1886	227
115°	381	464	1065	2120	2406	376
125°	525	599	966	1634	1914	469
135°	634	704	938	1321	1495	489
145°	733	783	924	1126	1213	460
155°	830	857	918	1012	1041	381
165°	897	908	922	960	966	253
175°	928	930	924	936	934	88
180°	928	928	928	928	928	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3013.1	3013.1	3013.1	3013.1	3013.1
2.5°	3032.1	3007.3	3013.1	3008.6	2996.2
5°	3023.6	2995.2	3005.2	2994.6	2994.6
7.5°	3003.1	2972.1	2981.9	2971.3	2970.8
10°	2984.0	2953.1	2962.9	2952.3	2949.7
12.5°	2956.6	2925.6	2937.6	2924.9	2924.4
15°	2907.5	2879.1	2891.6	2880.9	2875.8
17.5°	2852.0	2821.0	2836.2	2821.3	2819.3
20°	2809.7	2778.8	2793.9	2772.8	2772.8
22.5°	2759.0	2728.1	2745.3	2717.9	2717.9
25°	2677.7	2646.7	2659.2	2635.4	2632.8
27.5°	2581.1	2550.6	2563.6	2536.7	2536.2
30°	2511.3	2482.9	2498.1	2469.0	2466.5
32.5°	2435.3	2409.0	2420.0	2390.9	2388.3
35°	2313.3	2290.1	2297.4	2271.0	2268.4
37.5°	2184.9	2161.2	2169.6	2146.9	2145.9
40°	2094.1	2078.6	2080.9	2062.3	2057.1
42.5°	2009.6	1992.0	1994.3	1975.8	1974.7
45°	1880.2	1867.3	1867.0	1848.5	1848.5
47.5°	1742.9	1733.1	1730.2	1714.9	1714.4
50°	1647.8	1640.1	1637.3	1624.0	1621.4
52.5°	1548.5	1544.9	1535.9	1524.8	1524.2
55°	1394.3	1389.1	1375.8	1367.8	1365.3
57.5°	1226.9	1216.6	1201.5	1190.0	1192.0
60°	1106.5	1096.1	1074.8	1069.5	1069.5
62.5°	990.3	977.9	956.5	949.2	953.3
65°	823.9	808.4	789.6	784.4	786.9
67.5°	672.9	658.9	638.5	638.5	636.4
70°	575.7	567.9	551.9	551.9	551.9
72.5°	489.1	485.5	473.7	473.7	471.6
75°	375.0	375.0	369.7	367.0	364.4
77.5°	281.0	282.0	279.4	276.6	272.0
80°	221.8	227.0	224.5	221.8	219.2
82.5°	166.9	172.1	171.6	166.9	166.4
85°	87.1	94.9	95.1	95.1	95.1
87.5°	23.6	33.1	36.6	37.4	39.5
90°	2.0	7.8	13.8	17.8	17.8
92.5°	27.3	116.5	201.9	77.5	63.6
95°	65.2	239.0	774.3	331.1	211.3
97.5°	106.3	265.0	1181.6	910.4	642.3
100°	136.3	281.1	1309.6	1321.8	1078.5
102.5°	164.7	300.3	1342.7	1639.9	1416.6
105°	215.3	331.2	1327.3	2021.5	1886.3
107.5°	263.5	369.3	1251.9	2208.4	2248.6
110°	298.3	394.8	1195.0	2254.9	2394.0

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	329.9	423.3	1138.1	2224.9	2436.6
115°	381.2	464.3	1064.6	2120.0	2405.8
117.5°	430.2	506.7	1018.0	1972.7	2296.0
120°	460.2	533.6	997.5	1862.3	2196.4
122.5°	487.1	560.5	983.3	1765.5	2082.7
125°	525.4	598.8	965.9	1633.9	1914.0
127.5°	561.7	631.7	954.4	1524.1	1769.8
130°	580.7	652.2	948.1	1458.8	1682.9
132.5°	602.8	674.3	943.4	1401.5	1603.9
135°	634.0	703.6	938.2	1321.4	1495.2
137.5°	663.3	727.8	933.9	1256.7	1400.0
140°	685.4	745.3	932.3	1213.7	1343.1
142.5°	704.4	759.6	929.1	1175.4	1286.3
145°	732.8	783.0	924.4	1125.9	1212.8
147.5°	763.2	806.5	922.0	1082.0	1151.5
150°	782.2	820.8	920.4	1058.0	1112.0
152.5°	799.6	835.1	918.9	1037.2	1082.0
155°	829.6	856.6	918.5	1012.0	1040.9
157.5°	851.3	873.3	918.5	991.2	1011.3
160°	867.1	884.5	918.5	980.1	995.5
162.5°	879.8	894.0	920.1	970.5	982.9
165°	896.7	908.3	922.4	960.1	965.9
167.5°	908.6	917.5	924.4	951.3	952.8
170°	916.5	922.3	924.4	948.1	948.1
172.5°	922.8	925.5	924.4	943.3	941.8
175°	928.3	930.3	924.4	936.2	934.3
177.5°	929.9	929.9	923.6	933.0	929.9
180°	928.3	928.3	928.3	928.3	928.3

(END OF REPORT)