

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: P561899

Luminaire Tested: **SQ4-PR1-075U-075D-92765-1D-UNV-STD-W-4 (5000K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P561899  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2106-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PR1-075U-075D-92765-1D-UNV-STD-W-4 (5000K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

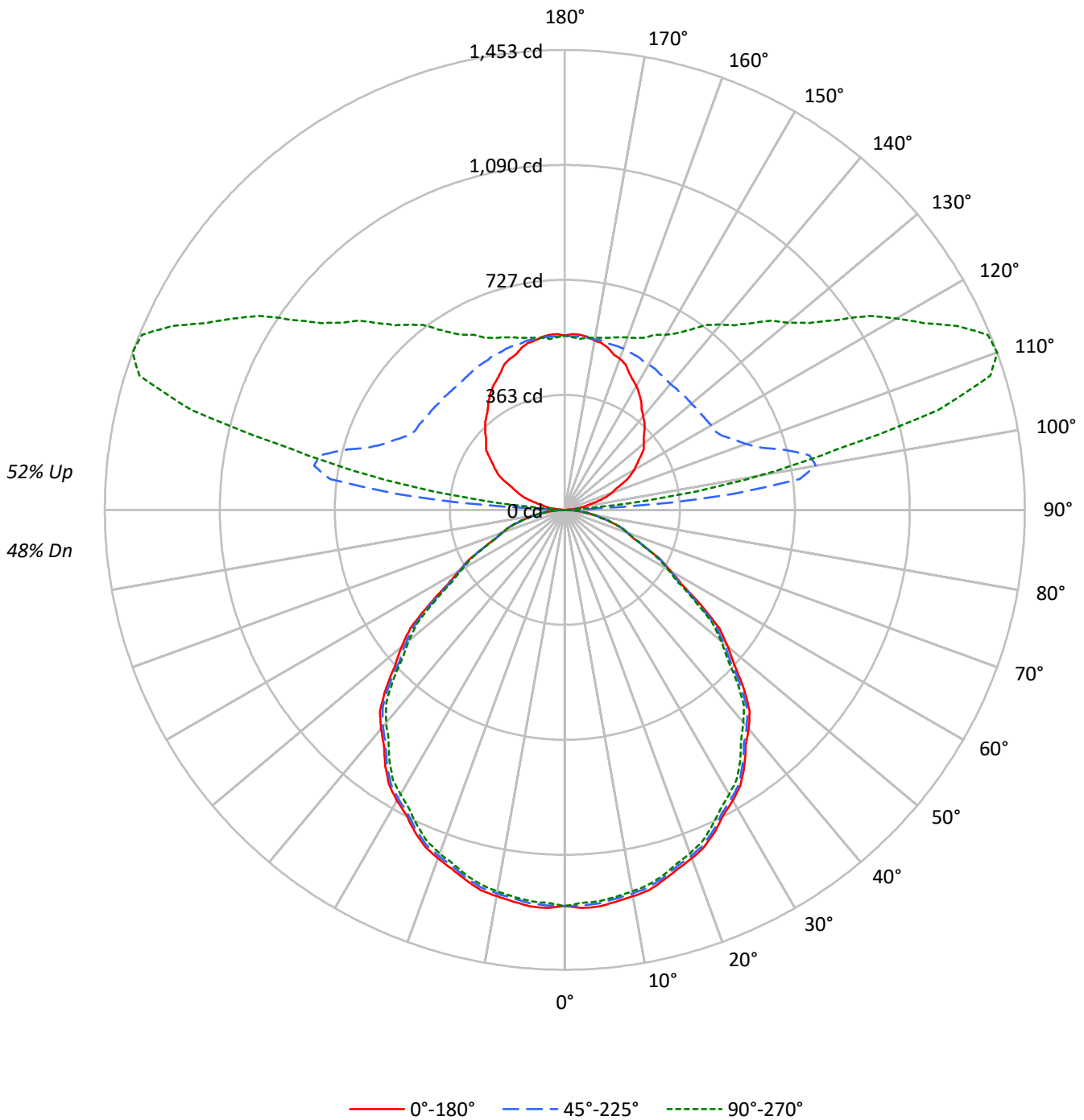
Lumens per Lamp: N/A  
Luminaire Lumens: 6546.4 lumens  
Efficiency: N/A  
Efficacy: 118.2 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 55.4  
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									
RC	80					70					50					30					10				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0				
RCR																									
0	107	107	107	107	98	98	98	98	82	82	82	67	67	67	54	54	54	48							
1	98	93	90	86	90	86	83	80	72	70	68	60	58	57	48	47	46	41							
2	89	82	76	71	82	76	70	66	64	60	57	53	50	48	43	41	39	35							
3	81	72	65	59	75	67	60	55	56	52	48	47	44	41	38	36	34	30							
4	75	64	56	50	68	59	52	47	50	45	41	42	38	35	34	32	29	26							
5	68	57	49	43	63	53	46	41	45	40	36	38	34	31	31	28	26	22							
6	63	51	43	38	58	48	41	35	41	35	31	34	30	27	28	25	23	20							
7	58	46	38	33	54	43	36	31	37	31	27	31	27	24	26	23	20	18							
8	54	42	34	29	50	39	32	28	34	28	24	28	24	21	24	20	18	16							
9	50	38	31	26	46	36	29	25	31	26	22	26	22	19	22	19	16	14							
10	47	35	28	23	43	33	26	22	28	23	20	24	20	17	20	17	15	13							

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

	0°	45°	90°
0°	11546	11546	11546
5°	11649	11559	11500
10°	11612	11532	11471
15°	11561	11490	11428
20°	11503	11430	11344
25°	11422	11346	11213
30°	11299	11218	11057
35°	11132	11034	10877
40°	10878	10761	10567
45°	10434	10252	10042
50°	9654	9422	9236
55°	8426	8236	8062
60°	7100	7041	6901
65°	6141	6165	6117
70°	5641	5670	5670
75°	5418	5418	5458
80°	5095	5154	5095
85°	4107	4563	4563



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	118.3	1.8
10°-20°	338.6	5.2
20°-30°	510.7	7.8
30°-40°	608.5	9.3
40°-50°	599.9	9.2
50°-60°	458.5	7.0
60°-70°	283.7	4.3
70°-80°	161.2	2.5
80°-90°	49.0	0.7
90°-100°	250.8	3.8
100°-110°	713.5	10.9
110°-120°	683.6	10.4
120°-130°	541.0	8.3
130°-140°	434.3	6.6
140°-150°	340.0	5.2
150°-160°	248.8	3.8
160°-170°	154.1	2.4
170°-180°	52.3	0.8
0°-30°	967.6	14.8
0°-40°	1576.0	24.1
0°-60°	2634.4	40.2
0°-90°	3128.3	47.8
90°-120°	1647.8	25.2
90°-150°	2963.1	45.3
90°-180°	3418.0	52.2
0°-180°	6546.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1251	1251	1251	1251	1251	
5°	1258	1244	1248	1244	1242	119
15°	1210	1198	1203	1198	1196	342
25°	1122	1108	1114	1103	1102	516
35°	988	977	980	967	966	617
45°	800	789	786	772	770	613
55°	524	515	512	503	501	469
65°	281	279	282	280	280	285
75°	152	152	152	153	153	160
85°	39	41	43	43	43	45
90°	0	0	0	0	0	3
95°	27	108	485	168	104	31
105°	111	168	727	1284	1221	117
115°	206	249	551	1168	1372	203
125°	291	322	526	873	1044	260
135°	356	385	520	738	834	274
145°	420	441	524	638	696	262
155°	479	490	537	577	600	221
165°	529	531	543	555	563	149
175°	554	551	549	546	542	53
180°	550	550	550	550	550	

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CATALOG NUMBER: SQ4-PR1-075U-075D-92765-1D-UNV-STD-W-4 (5000K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1251.4	1251.4	1251.4	1251.4	1251.4
2.5°	1259.1	1248.2	1251.4	1248.6	1242.7
5°	1257.8	1244.1	1248.1	1243.8	1241.7
7.5°	1248.1	1234.6	1238.6	1234.3	1233.0
10°	1239.5	1226.9	1230.9	1226.5	1224.4
12.5°	1230.0	1216.5	1221.4	1216.2	1214.1
15°	1210.4	1197.8	1202.9	1198.5	1196.4
17.5°	1188.8	1175.4	1180.4	1175.4	1172.7
20°	1171.6	1159.0	1164.1	1156.5	1155.4
22.5°	1152.6	1140.0	1145.1	1134.9	1134.7
25°	1122.0	1108.3	1114.5	1102.6	1101.5
27.5°	1085.6	1072.9	1078.0	1065.9	1064.7
30°	1060.6	1047.9	1053.0	1040.1	1037.9
32.5°	1032.1	1020.3	1024.6	1011.6	1010.4
35°	988.4	976.8	979.7	966.8	965.7
37.5°	938.6	928.0	929.7	915.5	914.4
40°	903.2	892.7	893.5	878.4	877.4
42.5°	864.4	853.9	853.0	837.9	836.8
45°	799.7	789.2	785.7	771.7	769.6
47.5°	726.0	715.5	709.0	697.5	696.1
50°	672.6	662.0	656.4	646.6	643.5
52.5°	614.8	604.3	599.5	590.6	587.4
55°	523.8	515.4	512.0	503.3	501.2
57.5°	437.4	431.7	430.7	422.3	421.4
60°	384.8	381.6	381.6	374.0	374.0
62.5°	339.9	337.6	339.3	334.3	333.5
65°	281.3	279.2	282.4	280.2	280.2
67.5°	235.0	235.0	236.9	236.0	236.0
70°	209.1	209.1	210.2	210.2	210.2
72.5°	185.8	185.0	187.8	187.7	186.9
75°	152.0	152.0	152.0	153.1	153.1
77.5°	118.3	118.6	119.4	119.2	118.3
80°	95.9	97.0	97.0	95.9	95.9
82.5°	73.5	74.6	74.6	74.4	73.5
85°	38.8	40.9	43.1	43.1	43.1
87.5°	11.2	14.6	17.2	17.2	16.4
90°	0.0	0.0	0.0	0.0	0.0
92.5°	8.4	44.4	102.9	30.0	22.6
95°	27.2	108.0	485.4	168.0	103.6
97.5°	50.0	126.5	747.6	535.0	366.6
100°	65.9	137.5	804.5	814.9	627.7
102.5°	83.5	149.4	792.0	1043.1	879.6
105°	110.9	168.2	727.1	1284.3	1220.9
107.5°	138.7	190.1	651.3	1352.3	1408.8
110°	158.0	206.0	607.8	1326.3	1453.1

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CATALOG NUMBER: SQ4-PR1-075U-075D-92765-1D-UNV-STD-W-4 (5000K)

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	176.4	222.0	578.5	1264.7	1445.6
115°	206.1	249.1	551.3	1168.0	1371.5
117.5°	232.2	272.6	535.2	1062.2	1277.8
120°	253.2	286.9	533.5	1001.7	1208.3
122.5°	269.9	303.7	529.4	948.6	1140.5
125°	290.8	322.5	526.2	873.2	1044.1
127.5°	313.6	343.3	524.5	828.2	969.0
130°	325.4	355.0	522.0	796.8	919.6
132.5°	337.9	366.8	522.0	772.3	885.3
135°	355.7	385.4	519.9	737.6	833.8
137.5°	372.4	401.3	519.7	708.3	791.3
140°	385.0	414.7	518.9	683.9	763.7
142.5°	399.2	424.0	521.4	664.5	736.1
145°	419.5	441.0	524.1	638.4	695.7
147.5°	436.9	457.7	528.7	612.1	661.6
150°	451.9	466.3	530.4	603.4	638.2
152.5°	463.7	478.8	532.1	591.6	623.9
155°	479.1	490.4	536.7	577.0	600.5
157.5°	498.4	505.1	537.7	570.3	587.1
160°	508.4	513.6	541.9	565.3	579.6
162.5°	514.3	520.2	542.8	561.0	572.0
165°	529.4	531.4	543.0	554.7	562.8
167.5°	539.6	537.8	547.8	553.1	556.4
170°	543.0	541.9	546.1	547.2	551.3
172.5°	550.5	547.0	548.6	545.5	548.8
175°	554.5	551.4	549.2	546.0	541.9
177.5°	556.1	551.2	548.6	545.3	546.1
180°	550.3	550.3	550.3	550.3	550.3

(END OF REPORT)