

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: P562742

Luminaire Tested: **SQ4-PC3-075U-075D-940-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562742  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, G2-2106-289-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PC3-075U-075D-940-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

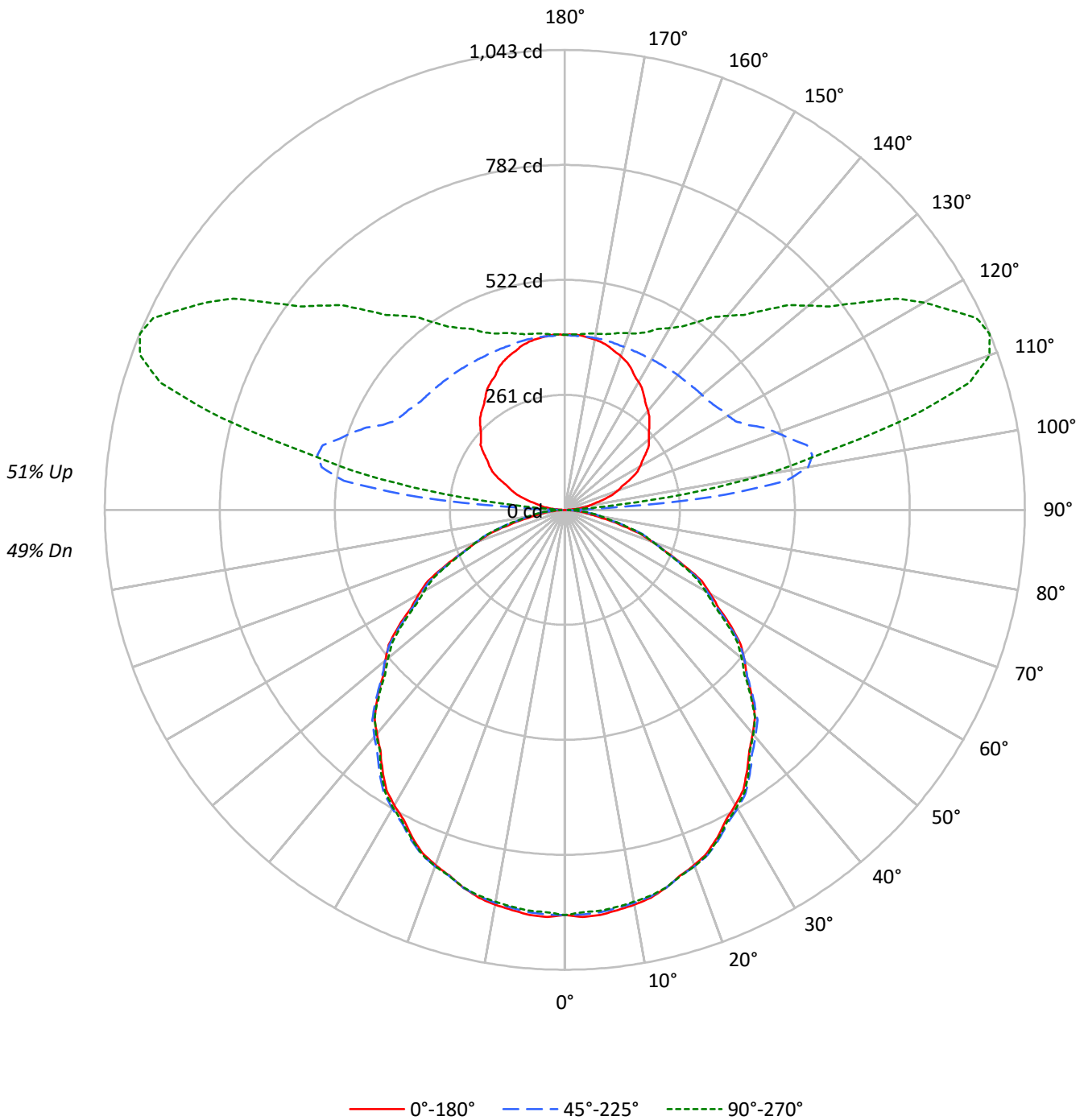
Lumens per Lamp: N/A  
Luminaire Lumens: 5096.5 lumens  
Efficiency: N/A  
Efficacy: 119.9 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 42.5  
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	50	30	10	0	
RCR																						
0	107	107	107	107	99	99	99	99	83	83	83	69	69	69	55	55	55	49				49
1	98	93	90	86	90	86	83	80	73	70	68	60	59	57	49	48	47				42	
2	89	82	75	70	82	75	70	66	64	60	56	53	50	48	43	41	40				35	
3	81	72	64	58	74	66	60	55	56	51	47	47	43	40	38	36	34				29	
4	74	63	55	49	68	59	52	46	50	45	40	42	38	35	34	31	29				25	
5	68	56	48	42	62	52	45	40	45	39	35	37	33	30	31	28	25				22	
6	63	51	42	37	58	47	40	34	40	34	30	34	29	26	28	25	22				19	
7	58	46	38	32	53	42	35	30	36	31	27	31	26	23	25	22	20				17	
8	54	41	34	28	49	39	32	27	33	28	24	28	24	21	23	20	18				15	
9	50	38	30	25	46	35	28	24	30	25	21	26	21	18	21	18	16				14	
10	47	35	27	23	43	32	26	21	28	23	19	24	20	17	20	17	14				12	

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

	0°	45°	90°
0°	8477	8477	8477
5°	8541	8485	8454
10°	8520	8479	8456
15°	8475	8475	8467
20°	8419	8445	8445
25°	8339	8401	8374
30°	8238	8337	8301
35°	8115	8240	8183
40°	7982	8095	8012
45°	7837	7891	7770
50°	7632	7632	7510
55°	7390	7293	7184
60°	7032	6892	6781
65°	6499	6370	6314
70°	5692	5738	5713
75°	4581	5065	5094
80°	3257	4293	4341
85°	1980	3599	3599



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	87.0	1.7
10°-20°	249.5	4.9
20°-30°	377.9	7.4
30°-40°	453.0	8.9
40°-50°	461.9	9.1
50°-60°	403.2	7.9
60°-70°	288.7	5.7
70°-80°	148.7	2.9
80°-90°	38.6	0.8
90°-100°	187.4	3.7
100°-110°	515.5	10.1
110°-120°	532.1	10.4
120°-130°	426.3	8.4
130°-140°	334.8	6.6
140°-150°	256.6	5.0
150°-160°	184.5	3.6
160°-170°	112.8	2.2
170°-180°	38.0	0.7
0°-30°	714.3	14.0
0°-40°	1167.3	22.9
0°-60°	2032.5	39.9
0°-90°	2508.5	49.2
90°-120°	1235.0	24.2
90°-150°	2252.7	44.2
90°-180°	2588.0	50.8
0°-180°	5096.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	919	919	919	919	919	
5°	922	913	916	914	913	88
15°	887	880	887	887	886	250
25°	819	813	825	823	823	377
35°	720	719	732	726	726	451
45°	601	599	605	597	596	462
55°	459	454	453	447	447	410
65°	298	291	292	289	289	294
75°	128	134	142	143	143	139
85°	19	29	34	35	34	25
90°	1	3	6	8	8	3
95°	28	102	331	142	90	29
105°	92	142	568	865	807	97
115°	163	199	456	907	1030	161
125°	225	256	413	699	819	201
135°	271	301	402	566	640	209
145°	314	335	396	482	519	197
155°	355	367	393	433	446	163
165°	384	389	395	411	413	108
175°	397	398	396	401	400	38
180°	397	397	397	397	397	



TEST NUMBER: P562742

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	918.8	918.8	918.8	918.8	918.8
2.5°	924.2	916.2	918.8	916.6	913.3
5°	922.2	913.0	916.2	913.6	912.8
7.5°	915.5	906.4	910.6	908.9	908.0
10°	909.4	900.3	905.1	903.4	902.6
12.5°	901.2	892.8	898.3	896.6	896.5
15°	887.3	879.8	887.3	887.3	886.4
17.5°	869.8	862.9	870.9	871.4	870.9
20°	857.5	850.0	860.1	859.2	860.1
22.5°	842.5	836.4	847.1	844.9	845.8
25°	819.2	813.4	825.2	822.6	822.6
27.5°	791.7	787.5	800.3	797.6	797.6
30°	773.3	769.1	782.6	779.2	779.2
32.5°	752.9	750.0	762.9	758.8	758.8
35°	720.5	718.9	731.6	726.5	726.5
37.5°	687.2	685.7	697.2	691.1	689.1
40°	662.7	661.9	672.1	665.2	665.2
42.5°	638.2	637.4	646.2	638.0	638.0
45°	600.6	598.9	604.8	597.2	595.5
47.5°	559.6	557.9	561.6	553.3	552.4
50°	531.7	530.0	531.7	524.0	523.2
52.5°	503.1	500.1	500.4	492.7	492.6
55°	459.4	453.6	453.4	446.6	446.6
57.5°	413.1	405.4	406.1	400.3	399.5
60°	381.1	372.8	373.5	368.3	367.5
62.5°	349.8	340.2	342.2	336.4	336.2
65°	297.7	291.1	291.8	289.2	289.2
67.5°	247.7	241.6	246.0	244.0	243.8
70°	211.0	206.8	212.7	212.7	211.8
72.5°	176.9	176.8	184.1	184.1	184.6
75°	128.5	134.3	142.1	142.9	142.9
77.5°	85.8	96.1	104.6	105.0	104.8
80°	61.3	72.9	80.8	82.5	81.7
82.5°	41.5	53.8	60.4	62.1	61.3
85°	18.7	28.7	34.0	34.9	34.0
87.5°	5.6	12.1	14.8	15.1	13.8
90°	0.8	3.3	5.9	7.6	7.6
92.5°	11.7	49.8	86.4	33.2	27.2
95°	27.9	102.3	331.3	141.7	90.4
97.5°	45.5	113.4	505.6	389.6	274.9
100°	58.3	120.3	560.4	565.6	461.5
102.5°	70.5	128.5	574.6	701.8	606.2
105°	92.1	141.7	568.0	865.1	807.2
107.5°	112.8	158.0	535.7	945.1	962.2
110°	127.6	169.0	511.4	964.9	1024.5



TEST NUMBER: P562742

CATALOG NUMBER: SQ4-PC3-075U-075D-940-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	141.2	181.2	487.0	952.1	1042.7
115°	163.1	198.7	455.6	907.2	1029.5
117.5°	184.1	216.8	435.6	844.2	982.5
120°	196.9	228.4	426.9	796.9	939.9
122.5°	208.4	239.8	420.8	755.5	891.2
125°	224.8	256.2	413.3	699.2	819.1
127.5°	240.4	270.3	408.4	652.2	757.4
130°	248.5	279.1	405.7	624.3	720.2
132.5°	258.0	288.6	403.7	599.7	686.4
135°	271.3	301.1	401.5	565.5	639.9
137.5°	283.8	311.4	399.6	537.8	599.1
140°	293.3	318.9	399.0	519.4	574.8
142.5°	301.4	325.1	397.6	503.0	550.4
145°	313.6	335.1	395.6	481.8	519.0
147.5°	326.6	345.1	394.6	463.0	492.8
150°	334.7	351.3	393.9	452.7	475.9
152.5°	342.2	357.4	393.2	443.9	463.0
155°	355.0	366.6	393.0	433.1	445.5
157.5°	364.3	373.7	393.0	424.2	432.8
160°	371.1	378.5	393.0	419.4	426.0
162.5°	376.5	382.6	393.7	415.3	420.6
165°	383.7	388.7	394.7	410.9	413.3
167.5°	388.8	392.6	395.6	407.1	407.8
170°	392.2	394.7	395.6	405.7	405.7
172.5°	394.9	396.1	395.6	403.7	403.0
175°	397.3	398.1	395.6	400.6	399.8
177.5°	397.9	397.9	395.2	399.3	397.9
180°	397.3	397.3	397.3	397.3	397.3

(END OF REPORT)