

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: P519737

Luminaire Tested: **SQ4-100U-0D-940-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P519737  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/29/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-100U-0D-940-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

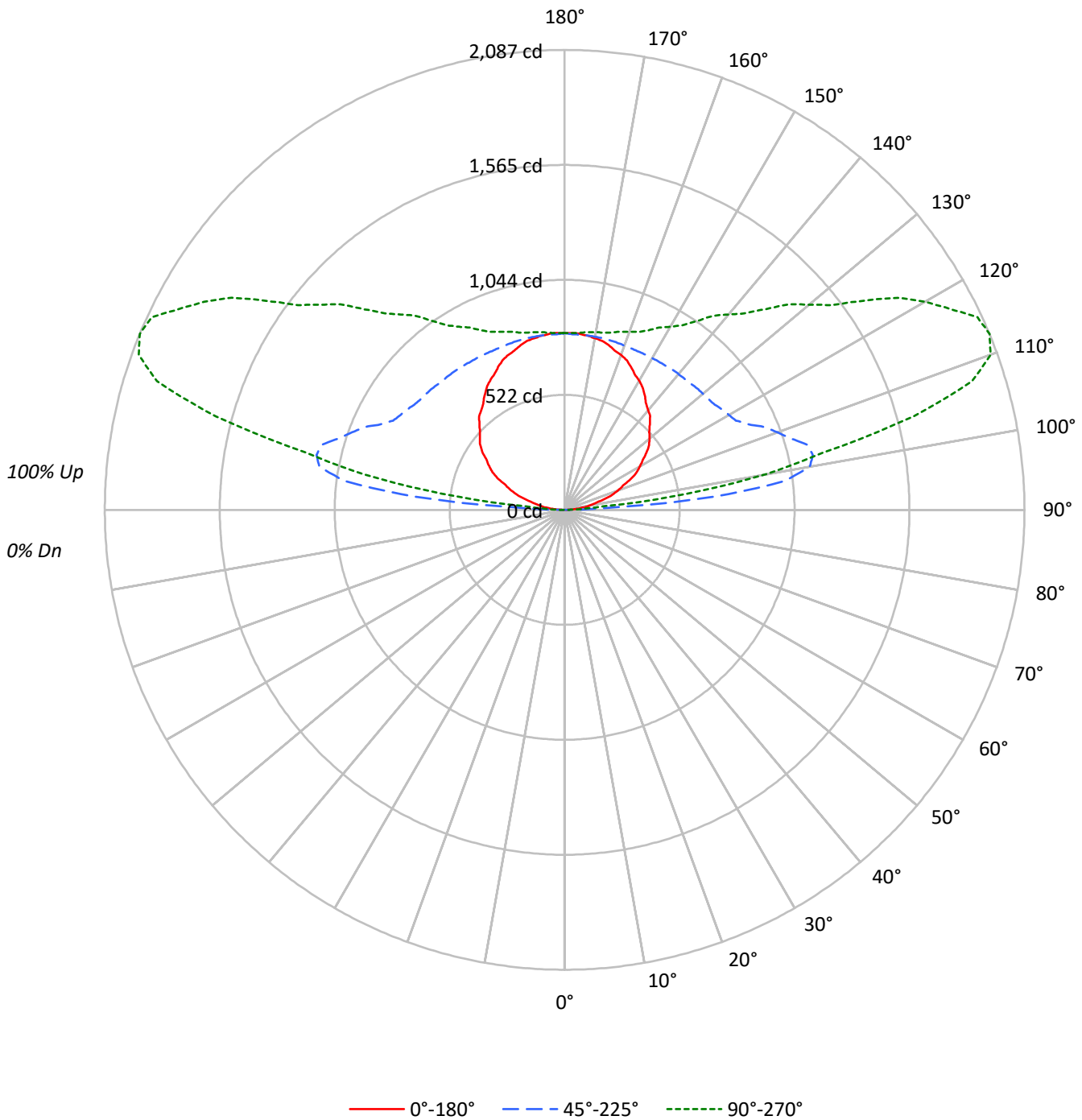
Lumens per Lamp: N/A  
Luminaire Lumens: 5208.0 lumens  
Efficiency: N/A  
Efficacy: 138.5 lumens/watt  
N/A  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Indirect

Input Watts (W): 37.6  
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



TEST NUMBER: P519737  
CATALOG NUMBER: SQ4-100U-0D-940-1D-UNV-STD-W-6

### Luminous Intensity Polar Plot





TEST NUMBER: P519737

CATALOG NUMBER: SQ4-100U-0D-940-1D-UNV-STD-W-6

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20				20				20	
RC	80									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	95	95	95	95	81	81	81	81	56	56	56	32	32	32	10	10	10	0	
1	87	83	79	76	74	71	68	65	48	47	45	28	27	26	9	9	8	0	
2	79	72	66	62	67	62	57	53	42	40	37	24	23	22	8	7	7	0	
3	72	63	57	51	61	54	49	44	37	34	31	21	20	18	7	6	6	0	
4	65	56	48	43	56	48	42	37	33	29	26	19	17	16	6	6	5	0	
5	60	49	42	36	51	42	36	32	29	25	22	17	15	13	5	5	4	0	
6	55	44	36	31	47	38	32	27	26	22	19	15	13	11	5	4	4	0	
7	50	39	32	27	43	34	28	23	23	19	17	14	11	10	4	4	3	0	
8	47	35	28	23	40	30	24	20	21	17	14	12	10	9	4	3	3	0	
9	43	32	25	20	37	27	22	18	19	15	13	11	9	8	4	3	3	0	
10	40	29	22	18	34	25	19	16	17	14	11	10	8	7	3	3	2	0	

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

	0°	45°	90°
95°	3889	48060	12851
100°	4180	40022	32754
105°	4389	27094	38951
110°	4660	18475	36994
115°	4816	13365	30089
120°	4859	10586	23223
125°	4869	8925	17727
130°	4810	7842	13855
135°	4752	7039	11189
140°	4736	6456	9288
145°	4757	5999	7848
150°	4809	5647	6813
155°	4848	5379	6101
160°	4894	5197	5625
165°	4924	5071	5308
170°	4942	4982	5110
175°	4949	4925	4981



TEST NUMBER: P519737

CATALOG NUMBER: SQ4-100U-0D-940-1D-UNV-STD-W-6

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	0.0	0.0
10°-20°	0.0	0.0
20°-30°	0.0	0.0
30°-40°	0.0	0.0
40°-50°	0.0	0.0
50°-60°	0.0	0.0
60°-70°	0.0	0.0
70°-80°	0.0	0.0
80°-90°	0.0	0.0
90°-100°	375.4	7.2
100°-110°	1036.3	19.9
110°-120°	1068.7	20.5
120°-130°	858.8	16.5
130°-140°	674.9	13.0
140°-150°	517.7	9.9
150°-160°	372.0	7.1
160°-170°	227.5	4.4
170°-180°	76.7	1.5
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	0.0	0.0
90°-120°	2480.4	47.6
90°-150°	4531.8	87.0
90°-180°	5208.0	100.0
0°-180°	5208.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
90°	3	5	10	12	13	
95°	55	203	681	280	182	63
105°	185	285	1140	1741	1639	196
115°	331	400	918	1818	2067	325
125°	454	517	832	1409	1653	404
135°	546	605	809	1141	1286	423
145°	634	677	799	971	1045	397
155°	714	738	793	871	899	329
165°	773	783	796	827	834	218
175°	802	803	798	809	807	76
180°	802	802	802	802	802	



TEST NUMBER: P519737

CATALOG NUMBER: SQ4-100U-0D-940-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
90°	2.6	5.1	10.3	11.6	12.8
92.5°	23.1	95.8	171.3	62.5	48.7
95°	55.1	203.1	681.0	279.9	182.1
97.5°	91.3	227.5	1008.8	776.7	562.5
100°	118.0	242.1	1129.9	1137.8	924.7
102.5°	143.6	258.8	1153.5	1405.9	1203.7
105°	184.7	285.0	1140.1	1740.6	1639.0
107.5°	228.3	317.6	1076.5	1902.0	1939.1
110°	259.1	339.3	1027.3	1936.7	2057.1
112.5°	286.8	364.0	981.1	1909.3	2086.8
115°	330.9	399.8	918.3	1817.8	2067.4
117.5°	369.4	438.1	877.0	1689.1	1973.0
120°	395.0	462.7	860.5	1601.9	1887.8
122.5°	419.6	484.3	847.2	1520.5	1791.4
125°	454.0	516.7	832.3	1408.6	1653.1
127.5°	483.2	545.9	823.6	1313.9	1524.9
130°	502.7	565.4	819.5	1256.1	1447.9
132.5°	521.2	580.9	815.4	1207.4	1381.2
135°	546.3	605.3	809.2	1140.9	1286.3
137.5°	574.6	628.2	806.2	1085.0	1209.1
140°	589.9	642.6	804.1	1047.7	1156.8
142.5°	607.4	656.0	802.1	1014.6	1110.6
145°	633.5	677.4	799.0	971.2	1045.2
147.5°	658.7	697.1	796.2	934.7	992.1
150°	677.1	708.5	795.1	912.9	959.3
152.5°	691.5	720.9	794.1	894.2	932.6
155°	714.3	738.2	792.6	871.4	899.0
157.5°	735.4	753.7	792.8	854.8	873.6
160°	747.7	764.0	793.9	845.5	859.3
162.5°	757.9	772.2	794.9	837.2	848.0
165°	773.3	783.4	796.4	827.3	833.6
167.5°	785.1	791.2	797.7	821.3	823.4
170°	791.3	796.3	797.7	818.2	818.2
172.5°	796.4	799.4	797.7	814.1	813.1
175°	801.5	802.8	797.7	809.2	806.7
177.5°	803.6	802.6	797.4	804.6	802.6
180°	801.5	801.5	801.5	801.5	801.5

(END OF REPORT)