

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: P564863

Luminaire Tested: **SQ4-PW1-0U-100D-835-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564863  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-289-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PW1-0U-100D-835-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
DOWNLIGHT 1000 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

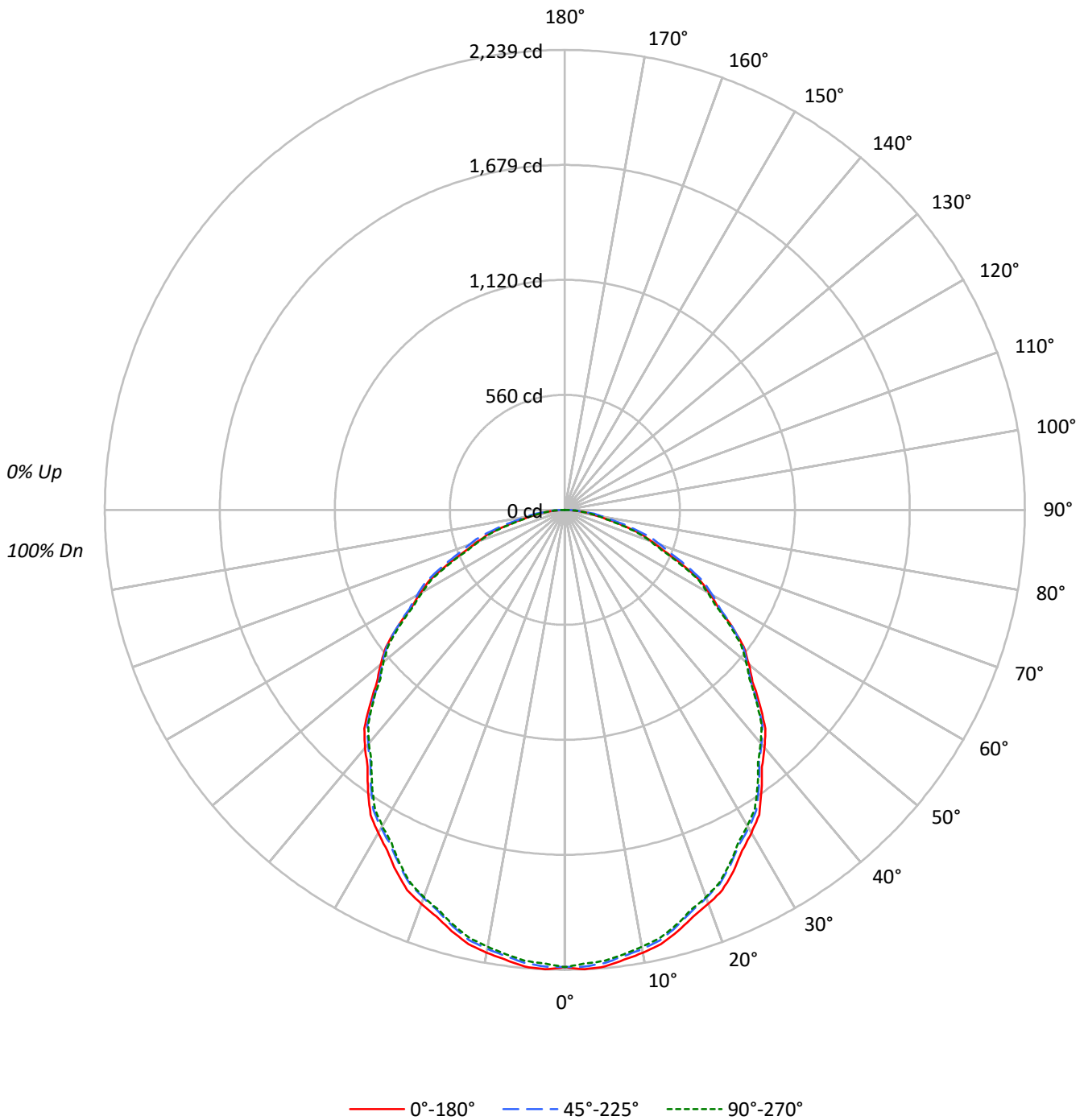
Lumens per Lamp: N/A  
Luminaire Lumens: 5663.7 lumens  
Efficiency: N/A  
Efficacy: 102.4 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Direct

Input Watts (W): 55.3  
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	76	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	31	42	35	30	41	35	30	28
10	54	41	33	28	53	40	33	28	39	33	28	39	32	28	38	32	28	26

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

	0°	45°	90°
0°	13692	13692	13692
5°	13780	13672	13611
10°	13671	13560	13487
15°	13526	13376	13326
20°	13364	13159	13133
25°	13178	12938	12898
30°	12899	12704	12620
35°	12533	12356	12282
40°	12142	11952	11905
45°	11669	11516	11465
50°	11185	11091	11017
55°	10664	10664	10495
60°	10012	10205	9844
65°	9163	9620	8935
70°	8076	8853	7866
75°	6899	7923	6711
80°	5349	6670	5419
85°	3458	5124	4566



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	209.6	3.7
10°-20°	591.8	10.4
20°-30°	877.9	15.5
30°-40°	1027.2	18.1
40°-50°	1022.6	18.1
50°-60°	883.1	15.6
60°-70°	635.6	11.2
70°-80°	333.3	5.9
80°-90°	82.6	1.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1679.3	29.6
0°-40°	2706.5	47.8
0°-60°	4612.1	81.4
0°-90°	5663.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5663.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2226	2226	2226	2226	2226	
5°	2232	2207	2214	2208	2204	211
15°	2124	2097	2100	2096	2093	599
25°	1942	1909	1906	1895	1900	893
35°	1669	1646	1646	1630	1636	1043
45°	1342	1330	1324	1320	1318	1035
55°	994	992	994	981	979	887
65°	630	649	661	635	614	624
75°	290	317	333	311	282	311
85°	49	64	73	69	65	66
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2226.1	2226.1	2226.1	2226.1	2226.1
2.5°	2238.6	2220.2	2226.1	2221.1	2210.4
5°	2231.9	2207.0	2214.3	2208.3	2204.5
7.5°	2209.2	2186.2	2191.5	2185.2	2182.9
10°	2188.8	2165.8	2171.1	2163.2	2159.4
12.5°	2165.3	2140.7	2146.0	2138.1	2135.8
15°	2124.1	2097.2	2100.5	2096.5	2092.7
17.5°	2076.2	2049.0	2049.5	2043.3	2042.5
20°	2041.7	2012.9	2010.3	2002.6	2006.4
22.5°	2004.0	1973.7	1971.1	1960.2	1965.6
25°	1941.7	1909.1	1906.4	1894.7	1900.5
27.5°	1869.5	1837.3	1837.3	1821.0	1827.1
30°	1816.2	1785.5	1788.7	1769.3	1776.9
32.5°	1759.7	1732.1	1733.8	1714.3	1722.0
35°	1669.1	1646.0	1645.5	1630.0	1635.7
37.5°	1576.5	1556.2	1552.9	1544.0	1545.5
40°	1512.2	1494.9	1488.6	1482.7	1482.7
42.5°	1444.7	1429.0	1422.7	1418.4	1416.8
45°	1341.5	1330.0	1323.9	1319.9	1318.0
47.5°	1239.5	1228.8	1223.5	1220.7	1218.7
50°	1168.9	1161.3	1159.1	1153.2	1151.3
52.5°	1098.3	1093.7	1091.7	1084.2	1082.2
55°	994.4	992.5	994.4	980.6	978.7
57.5°	886.1	889.2	895.5	877.0	872.4
60°	813.9	821.6	829.6	807.9	800.2
62.5°	740.2	752.5	763.7	738.8	728.0
65°	629.6	648.8	661.0	635.0	613.9
67.5°	522.9	546.7	561.3	533.3	509.5
70°	449.1	476.0	492.3	464.2	437.4
72.5°	384.8	414.7	428.0	401.5	374.6
75°	290.3	317.1	333.4	311.2	282.4
77.5°	205.9	231.2	244.8	225.4	201.6
80°	151.0	177.9	188.3	172.2	153.0
82.5°	107.1	129.3	136.5	126.8	113.8
85°	49.0	64.4	72.6	68.6	64.7
87.5°	12.6	23.3	29.8	29.8	31.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)