

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: P564191

Luminaire Tested: **SQ4-PR1-0U-100D-835-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564191  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (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-PR1-0U-100D-835-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.  
DOWNLIGHT 1000 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

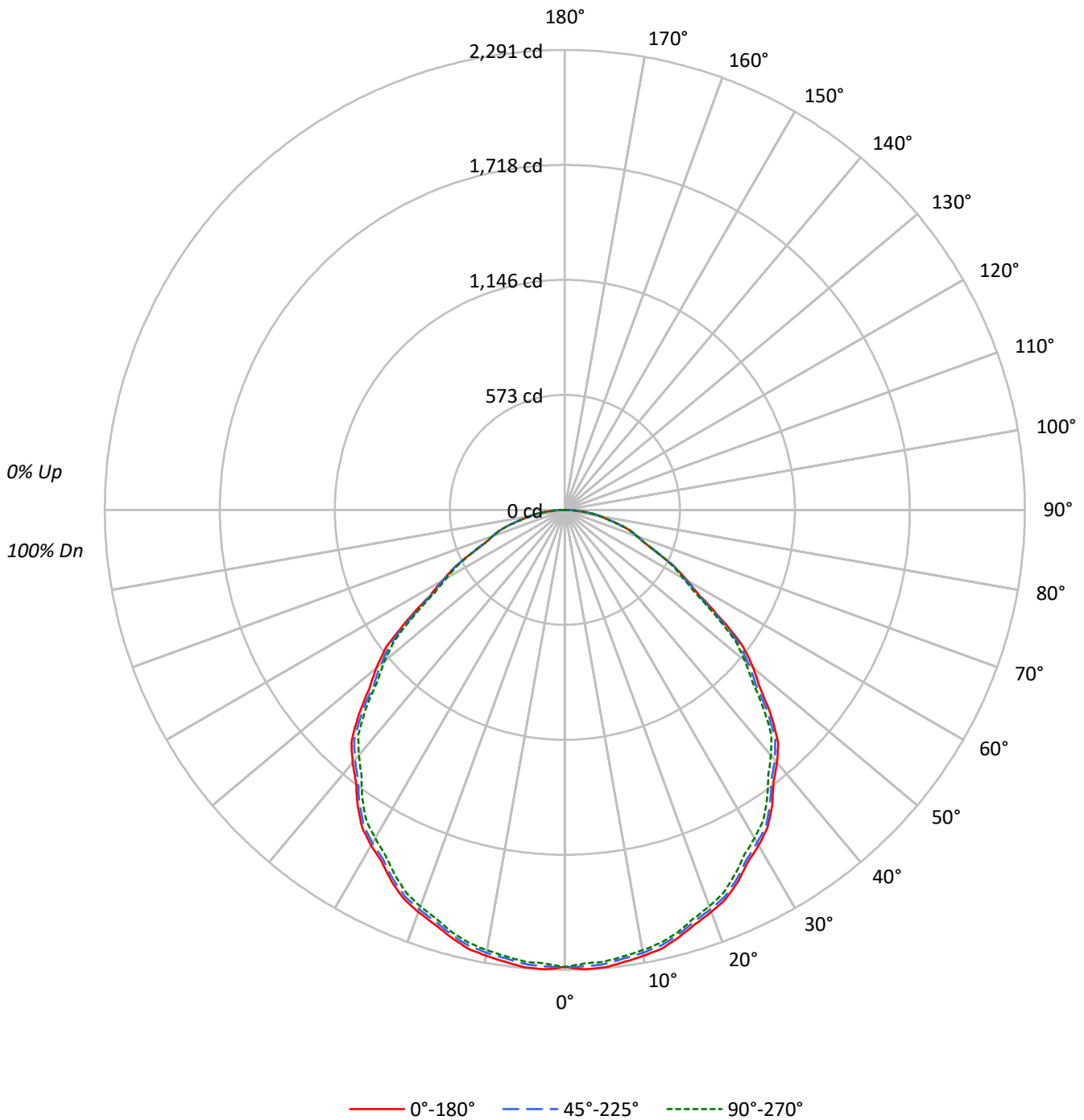
Lumens per Lamp: N/A  
Luminaire Lumens: 5692.4 lumens  
Efficiency: N/A  
Efficacy: 102.9 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Direct

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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100	
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85			85	
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72			72	
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62			62	
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	54			54	
5	78	66	57	51	76	65	57	50	63	55	50	61	54	49	59	53	49	47			47	
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43	41			41	
7	67	54	46	40	65	53	45	39	52	44	39	50	44	39	49	43	39	37			37	
8	63	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	33			33	
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30			30	
10	55	42	34	29	54	41	34	29	40	34	29	40	33	29	39	33	29	27			27	

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

	0°	45°	90°
0°	14006	14006	14006
5°	14132	14023	13950
10°	14087	13989	13915
15°	14025	13938	13863
20°	13954	13865	13762
25°	13856	13763	13603
30°	13707	13609	13414
35°	13504	13387	13195
40°	13197	13055	12819
45°	12659	12437	12181
50°	11710	11429	11204
55°	10222	9990	9780
60°	8614	8541	8372
65°	7450	7479	7421
70°	6843	6879	6879
75°	6571	6571	6619
80°	6185	6252	6185
85°	4982	5540	5540



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	215.3	3.8
10°-20°	616.1	10.8
20°-30°	929.2	16.3
30°-40°	1107.2	19.5
40°-50°	1091.6	19.2
50°-60°	834.2	14.7
60°-70°	516.3	9.1
70°-80°	293.2	5.2
80°-90°	89.2	1.6
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°	1760.7	30.9
0°-40°	2867.9	50.4
0°-60°	4793.7	84.2
0°-90°	5692.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5692.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2277	2277	2277	2277	2277	
5°	2289	2264	2271	2263	2259	217
15°	2202	2180	2189	2181	2177	622
25°	2042	2017	2028	2006	2004	940
35°	1798	1777	1783	1759	1757	1122
45°	1455	1436	1430	1404	1400	1115
55°	953	938	932	916	912	854
65°	512	508	514	510	510	519
75°	276	276	276	278	278	292
85°	71	74	78	78	78	85
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2277.1	2277.1	2277.1	2277.1	2277.1
2.5°	2291.2	2271.2	2277.1	2272.1	2261.4
5°	2288.8	2263.9	2271.2	2263.2	2259.4
7.5°	2271.2	2246.6	2253.9	2246.0	2243.7
10°	2255.5	2232.5	2239.8	2231.9	2228.0
12.5°	2238.2	2213.7	2222.5	2213.0	2209.2
15°	2202.5	2179.5	2188.8	2180.9	2177.0
17.5°	2163.3	2138.8	2148.0	2138.9	2133.9
20°	2131.9	2108.9	2118.2	2104.4	2102.5
22.5°	2097.4	2074.4	2083.7	2065.2	2064.8
25°	2041.7	2016.8	2028.0	2006.4	2004.4
27.5°	1975.4	1952.4	1961.7	1939.7	1937.4
30°	1929.9	1906.9	1916.2	1892.6	1888.7
32.5°	1878.1	1856.6	1864.4	1840.8	1838.5
35°	1798.5	1777.4	1782.8	1759.2	1757.3
37.5°	1707.9	1688.7	1691.8	1665.9	1664.0
40°	1643.6	1624.4	1625.9	1598.4	1596.5
42.5°	1573.0	1553.8	1552.2	1524.7	1522.7
45°	1455.3	1436.1	1429.8	1404.2	1400.4
47.5°	1321.1	1301.9	1290.1	1269.3	1266.6
50°	1223.8	1204.7	1194.4	1176.6	1170.9
52.5°	1118.7	1099.5	1090.9	1074.7	1068.9
55°	953.2	937.8	931.6	915.8	912.0
57.5°	795.9	785.5	783.7	768.4	766.9
60°	700.2	694.4	694.3	680.6	680.6
62.5°	618.6	614.4	617.4	608.4	606.8
65°	511.9	508.1	513.9	509.9	509.9
67.5°	427.6	427.6	431.1	429.5	429.5
70°	380.5	380.5	382.5	382.5	382.5
72.5°	338.1	336.6	341.7	341.6	340.1
75°	276.5	276.5	276.5	278.5	278.5
77.5°	215.3	215.7	217.3	216.9	215.3
80°	174.6	176.5	176.5	174.6	174.6
82.5°	133.8	135.7	135.7	135.3	133.8
85°	70.6	74.4	78.5	78.5	78.5
87.5°	20.4	26.5	31.4	31.3	29.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)