

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: P564887

Luminaire Tested: **SQ4-PW1-0U-125D-835-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564887
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-125D-835-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

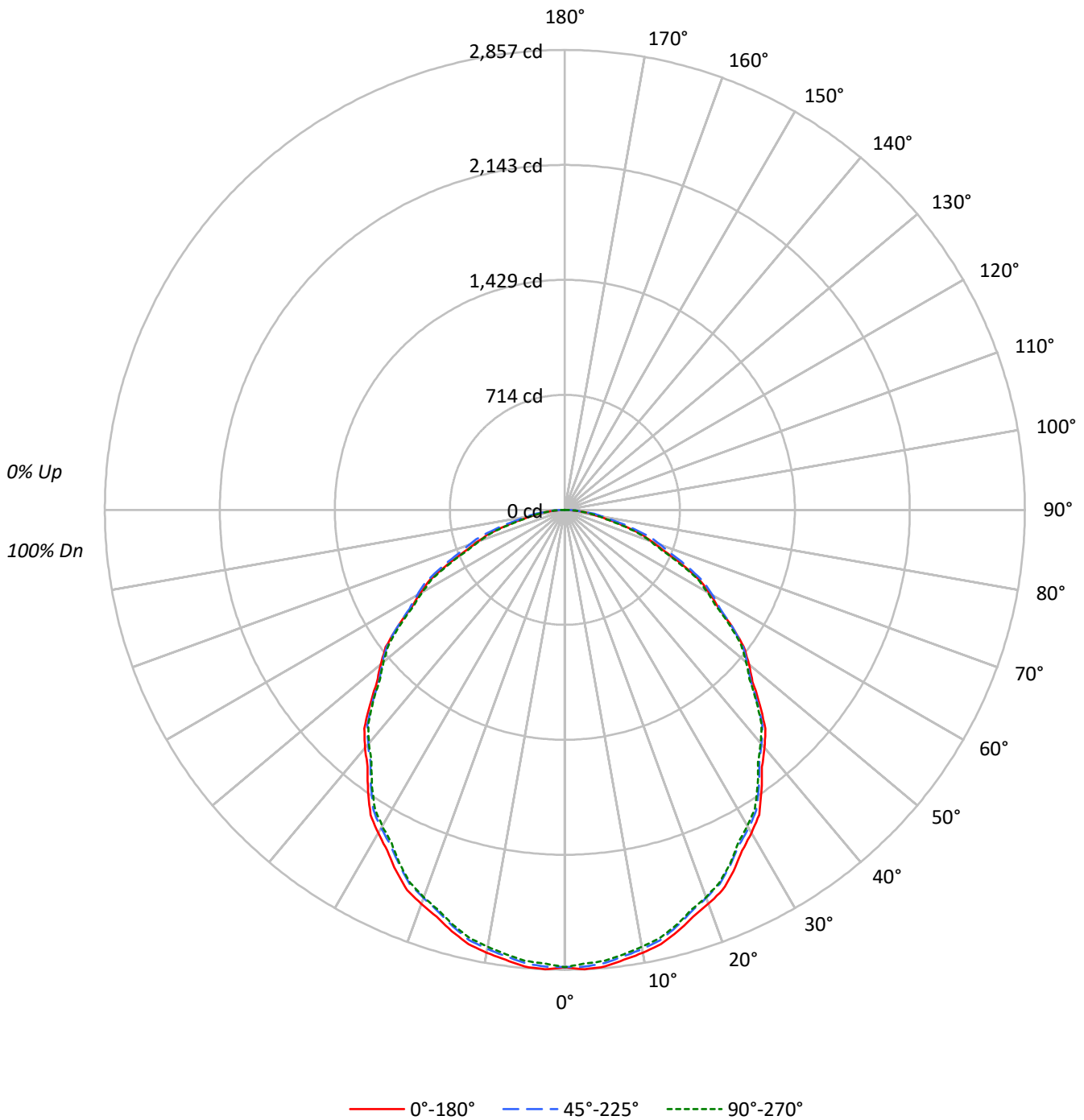
Lumens per Lamp: N/A
Luminaire Lumens: 7227.6 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Direct

Input Watts (W): 69.7
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°	17473	17473	17473
5°	17586	17447	17370
10°	17445	17305	17211
15°	17261	17069	17006
20°	17054	16792	16759
25°	16816	16511	16460
30°	16461	16212	16105
35°	15993	15768	15674
40°	15494	15253	15193
45°	14892	14695	14630
50°	14274	14154	14059
55°	13608	13608	13393
60°	12778	13024	12562
65°	11693	12276	11402
70°	10308	11297	10037
75°	8803	10112	8565
80°	6826	8512	6914
85°	4418	6535	5829



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.5	3.7
10°-20°	755.2	10.4
20°-30°	1120.3	15.5
30°-40°	1310.8	18.1
40°-50°	1305.0	18.1
50°-60°	1126.9	15.6
60°-70°	811.2	11.2
70°-80°	425.4	5.9
80°-90°	105.5	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°	2143.0	29.6
0°-40°	3453.8	47.8
0°-60°	5885.6	81.4
0°-90°	7227.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7227.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2841	2841	2841	2841	2841	
5°	2848	2816	2826	2818	2813	270
15°	2711	2676	2681	2676	2671	764
25°	2478	2436	2433	2418	2425	1139
35°	2130	2101	2100	2080	2087	1332
45°	1712	1697	1689	1684	1682	1321
55°	1269	1266	1269	1251	1249	1132
65°	803	828	844	810	783	796
75°	370	405	426	397	360	397
85°	63	82	93	88	83	85
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2840.8	2840.8	2840.8	2840.8	2840.8
2.5°	2856.8	2833.3	2840.8	2834.4	2820.7
5°	2848.3	2816.5	2825.7	2818.1	2813.2
7.5°	2819.2	2789.9	2796.7	2788.6	2785.7
10°	2793.2	2763.8	2770.7	2760.6	2755.7
12.5°	2763.2	2731.8	2738.6	2728.6	2725.6
15°	2710.6	2676.3	2680.6	2675.5	2670.6
17.5°	2649.5	2614.8	2615.5	2607.5	2606.5
20°	2605.5	2568.8	2565.4	2555.5	2560.4
22.5°	2557.4	2518.8	2515.4	2501.5	2508.4
25°	2477.8	2436.2	2432.8	2417.9	2425.3
27.5°	2385.7	2344.6	2344.7	2323.8	2331.7
30°	2317.7	2278.5	2282.6	2257.8	2267.6
32.5°	2245.6	2210.3	2212.5	2187.7	2197.5
35°	2129.9	2100.6	2099.9	2080.1	2087.4
37.5°	2011.8	1985.9	1981.8	1970.3	1972.3
40°	1929.7	1907.7	1899.7	1892.2	1892.2
42.5°	1843.6	1823.5	1815.6	1810.0	1808.1
45°	1712.0	1697.3	1689.4	1684.4	1681.9
47.5°	1581.8	1568.1	1561.3	1557.7	1555.3
50°	1491.7	1481.9	1479.2	1471.6	1469.2
52.5°	1401.6	1395.7	1393.1	1383.5	1381.1
55°	1269.0	1266.5	1269.0	1251.4	1248.9
57.5°	1130.8	1134.7	1142.8	1119.1	1113.3
60°	1038.7	1048.5	1058.7	1031.0	1021.2
62.5°	944.6	960.2	974.6	942.8	929.1
65°	803.4	827.9	843.5	810.3	783.4
67.5°	667.3	697.6	716.3	680.6	650.2
70°	573.2	607.4	628.2	592.4	558.1
72.5°	491.1	529.2	546.1	512.3	478.0
75°	370.4	404.7	425.5	397.1	360.4
77.5°	262.8	295.1	312.4	287.6	257.3
80°	192.7	227.0	240.3	219.7	195.2
82.5°	136.7	165.0	174.2	161.8	145.2
85°	62.6	82.1	92.6	87.5	82.6
87.5°	16.0	29.7	38.0	38.1	40.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)