

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: P564197

Luminaire Tested: **SQ4-PR1-0U-100D-930-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564197
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-930-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

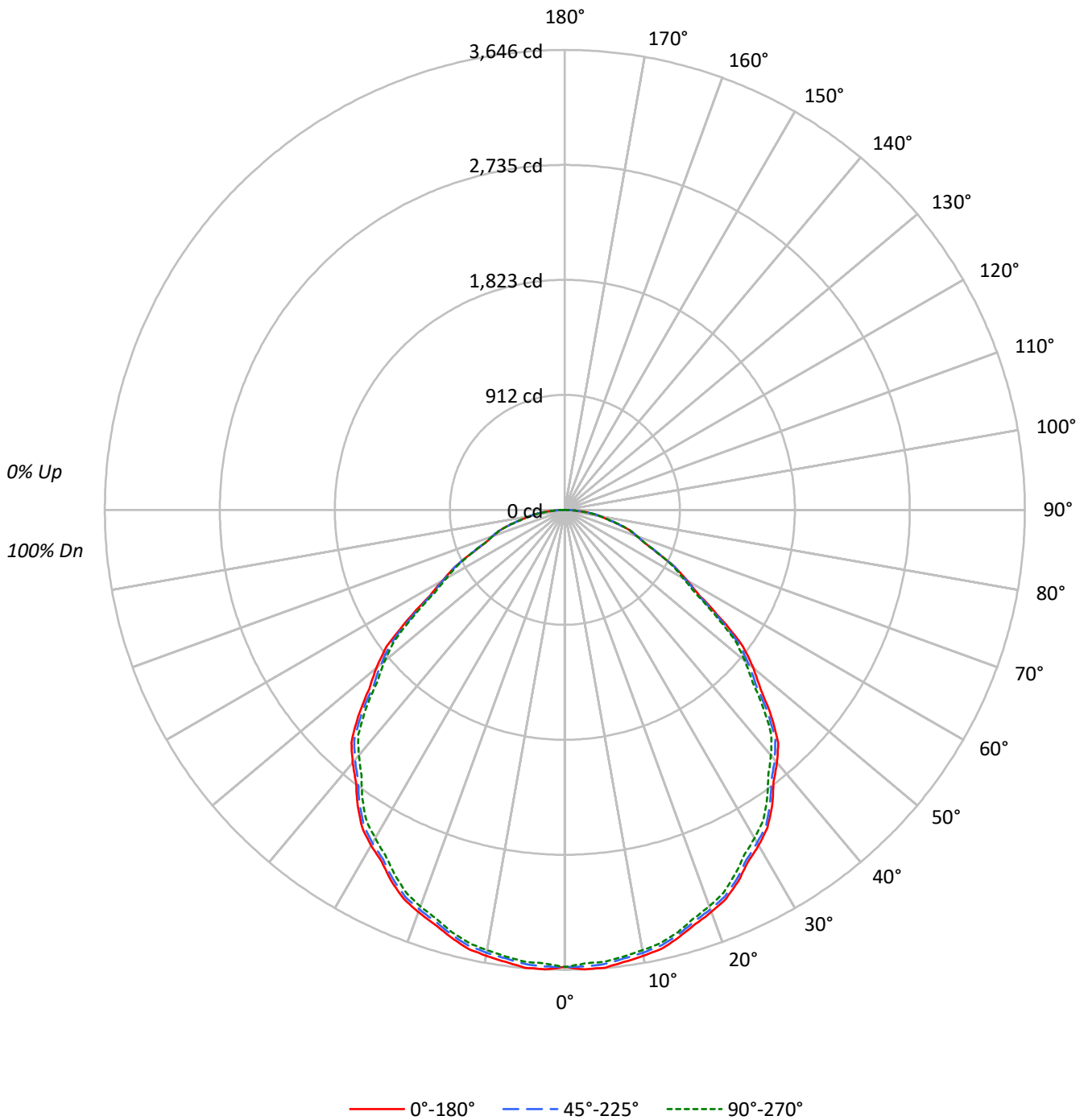
Lumens per Lamp: N/A
Luminaire Lumens: 9059.5 lumens
Efficiency: N/A
Efficacy: 83.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Direct

Input Watts (W): 108.2
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				
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85				
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72				
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62				
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	54				
5	78	66	57	51	76	65	57	50	63	55	50	61	54	49	59	53	49	47				
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43	41				
7	67	54	46	40	65	53	45	39	52	44	39	50	44	39	49	43	39	37				
8	63	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	33				
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30				
10	55	42	34	29	54	41	34	29	40	34	29	40	33	29	39	33	29	27				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11145	11145	11145
5°	11246	11159	11101
10°	11210	11132	11073
15°	11160	11091	11032
20°	11105	11033	10951
25°	11026	10952	10825
30°	10907	10830	10674
35°	10746	10653	10500
40°	10501	10388	10200
45°	10073	9897	9693
50°	9319	9095	8916
55°	8134	7950	7783
60°	6854	6797	6662
65°	5929	5951	5906
70°	5445	5473	5473
75°	5229	5229	5266
80°	4920	4975	4920
85°	3966	4407	4407



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	342.7	3.8
10°-20°	980.5	10.8
20°-30°	1478.9	16.3
30°-40°	1762.1	19.5
40°-50°	1737.3	19.2
50°-60°	1327.7	14.7
60°-70°	821.7	9.1
70°-80°	466.7	5.2
80°-90°	142.0	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°	2802.1	30.9
0°-40°	4564.2	50.4
0°-60°	7629.2	84.2
0°-90°	9059.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9059.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3624	3624	3624	3624	3624	
5°	3643	3603	3615	3602	3596	346
15°	3505	3469	3484	3471	3465	989
25°	3249	3210	3228	3193	3190	1495
35°	2862	2829	2837	2800	2797	1786
45°	2316	2286	2276	2235	2229	1774
55°	1517	1493	1483	1458	1452	1359
65°	815	809	818	812	812	825
75°	440	440	440	443	443	465
85°	112	118	125	125	125	135
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3624.0	3624.0	3624.0	3624.0	3624.0
2.5°	3646.4	3614.7	3624.0	3616.1	3599.0
5°	3642.7	3603.0	3614.6	3602.0	3595.9
7.5°	3614.6	3575.5	3587.1	3574.5	3570.9
10°	3589.6	3553.0	3564.6	3552.0	3545.9
12.5°	3562.1	3523.1	3537.2	3522.1	3515.9
15°	3505.3	3468.7	3483.5	3470.9	3464.8
17.5°	3442.9	3403.8	3418.6	3404.0	3396.1
20°	3393.0	3356.3	3371.1	3349.2	3346.1
22.5°	3338.0	3301.4	3316.2	3286.8	3286.2
25°	3249.4	3209.7	3227.5	3193.1	3190.1
27.5°	3143.9	3107.3	3122.0	3087.0	3083.3
30°	3071.5	3034.8	3049.6	3012.0	3005.9
32.5°	2989.1	2954.9	2967.2	2929.7	2926.0
35°	2862.3	2828.8	2837.4	2799.8	2796.8
37.5°	2718.1	2687.6	2692.5	2651.3	2648.2
40°	2615.7	2585.2	2587.6	2543.9	2540.8
42.5°	2503.4	2472.8	2470.3	2426.5	2423.5
45°	2316.1	2285.6	2275.5	2234.8	2228.7
47.5°	2102.6	2072.1	2053.3	2020.1	2015.8
50°	1947.8	1917.2	1900.9	1872.6	1863.5
52.5°	1780.4	1749.9	1736.1	1710.3	1701.2
55°	1517.0	1492.6	1482.7	1457.6	1451.5
57.5°	1266.7	1250.2	1247.3	1222.9	1220.5
60°	1114.3	1105.2	1105.0	1083.1	1083.1
62.5°	984.5	977.8	982.6	968.2	965.8
65°	814.7	808.6	817.8	811.6	811.6
67.5°	680.5	680.5	686.1	683.6	683.6
70°	605.6	605.6	608.7	608.7	608.7
72.5°	538.1	535.7	543.7	543.7	541.3
75°	440.1	440.1	440.1	443.2	443.2
77.5°	342.7	343.3	345.9	345.2	342.7
80°	277.8	280.9	280.9	277.8	277.8
82.5°	212.9	215.9	216.0	215.3	212.9
85°	112.4	118.5	124.9	124.9	124.9
87.5°	32.5	42.2	49.9	49.9	47.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)