

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: P564205

Luminaire Tested: **SQ4-PR1-0U-100D-940-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564205
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-940-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
DIRECT ONLY
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

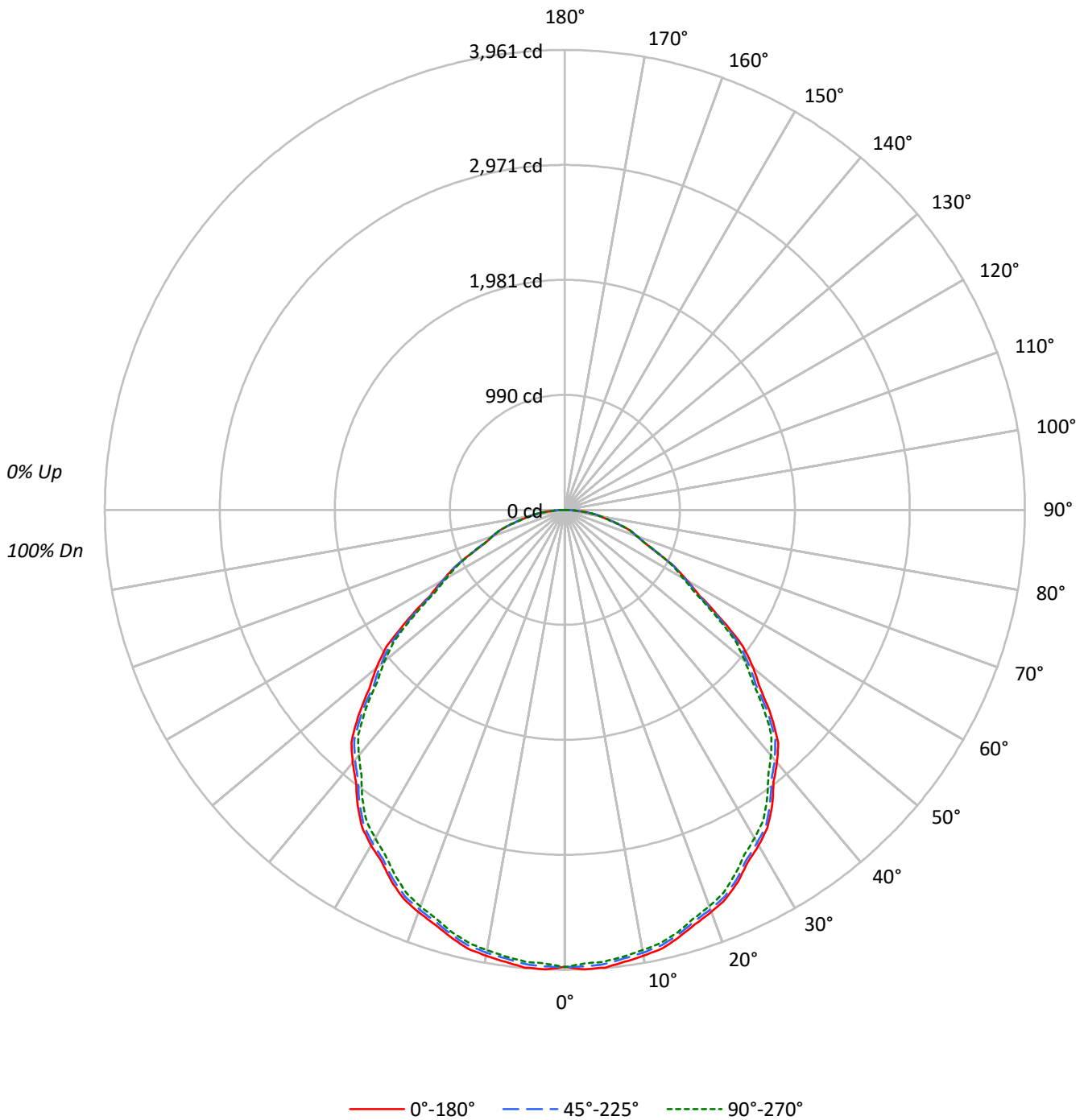
Lumens per Lamp: N/A
Luminaire Lumens: 9841.9 lumens
Efficiency: N/A
Efficacy: 91.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Direct

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				
RC	80					70					50					30				
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	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°	12108	12108	12108
5°	12217	12123	12060
10°	12178	12093	12030
15°	12125	12049	11984
20°	12063	11986	11897
25°	11978	11898	11760
30°	11849	11765	11596
35°	11674	11572	11407
40°	11408	11286	11082
45°	10943	10751	10530
50°	10124	9880	9686
55°	8836	8636	8454
60°	7446	7383	7238
65°	6440	6465	6416
70°	5916	5945	5945
75°	5681	5681	5721
80°	5345	5405	5345
85°	4308	4785	4785



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	372.3	3.8
10°-20°	1065.2	10.8
20°-30°	1606.6	16.3
30°-40°	1914.3	19.5
40°-50°	1887.3	19.2
50°-60°	1442.4	14.7
60°-70°	892.6	9.1
70°-80°	507.0	5.2
80°-90°	154.2	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°	3044.1	30.9
0°-40°	4958.4	50.4
0°-60°	8288.1	84.2
0°-90°	9841.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9841.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3937	3937	3937	3937	3937	
5°	3957	3914	3927	3913	3906	375
15°	3808	3768	3784	3771	3764	1075
25°	3530	3487	3506	3469	3466	1625
35°	3110	3073	3082	3042	3038	1941
45°	2516	2483	2472	2428	2421	1928
55°	1648	1622	1611	1583	1577	1477
65°	885	878	888	882	882	897
75°	478	478	478	482	482	505
85°	122	129	136	136	136	147
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3936.9	3936.9	3936.9	3936.9	3936.9
2.5°	3961.3	3926.9	3936.9	3928.4	3909.8
5°	3957.3	3914.2	3926.8	3913.0	3906.4
7.5°	3926.8	3884.3	3896.9	3883.3	3879.3
10°	3899.6	3859.8	3872.5	3858.8	3852.2
12.5°	3869.8	3827.4	3842.7	3826.2	3819.6
15°	3808.1	3768.3	3784.3	3770.6	3764.0
17.5°	3740.3	3697.8	3713.8	3698.0	3689.4
20°	3686.0	3646.2	3662.3	3638.5	3635.1
22.5°	3626.3	3586.5	3602.6	3570.7	3570.0
25°	3530.0	3486.9	3506.3	3468.9	3465.6
27.5°	3415.4	3375.6	3391.7	3353.6	3349.6
30°	3336.7	3296.9	3313.0	3272.2	3265.5
32.5°	3247.2	3210.1	3223.5	3182.7	3178.7
35°	3109.5	3073.1	3082.4	3041.6	3038.3
37.5°	2952.9	2919.7	2925.1	2880.2	2876.9
40°	2841.6	2808.5	2811.1	2763.6	2760.3
42.5°	2719.6	2686.4	2683.6	2636.1	2632.8
45°	2516.1	2483.0	2472.0	2427.8	2421.2
47.5°	2284.2	2251.0	2230.6	2194.5	2189.9
50°	2116.0	2082.8	2065.1	2034.4	2024.4
52.5°	1934.2	1901.1	1886.1	1858.0	1848.1
55°	1648.0	1621.5	1610.7	1583.4	1576.8
57.5°	1376.1	1358.2	1355.0	1328.5	1325.9
60°	1210.6	1200.6	1200.4	1176.7	1176.7
62.5°	1069.5	1062.2	1067.5	1051.8	1049.2
65°	885.0	878.4	888.4	881.7	881.7
67.5°	739.2	739.2	745.3	742.6	742.6
70°	657.9	657.9	661.2	661.2	661.2
72.5°	584.6	582.0	590.7	590.6	588.0
75°	478.1	478.1	478.1	481.5	481.5
77.5°	372.3	373.0	375.7	375.0	372.3
80°	301.8	305.1	305.2	301.8	301.8
82.5°	231.3	234.6	234.7	233.9	231.3
85°	122.1	128.7	135.6	135.6	135.6
87.5°	35.3	45.9	54.3	54.2	51.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)