

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: P564231

Luminaire Tested: **SQ4-PR1-0U-125D-940-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564231
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-125D-940-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
DIRECT ONLY
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

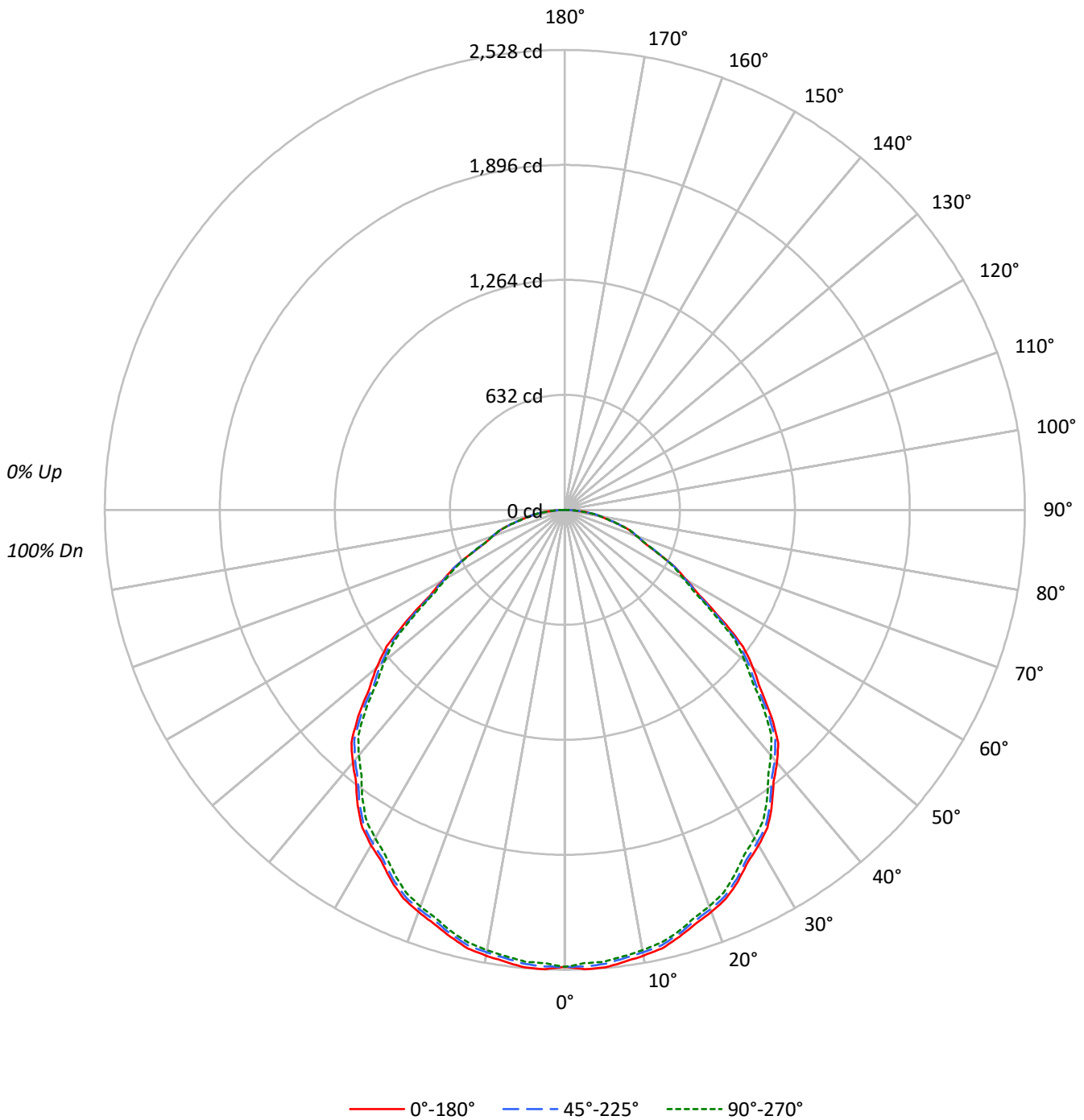
Lumens per Lamp: N/A
Luminaire Lumens: 6279.8 lumens
Efficiency: N/A
Efficacy: 90.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	15451	15451	15451
5°	15590	15470	15390
10°	15541	15432	15351
15°	15472	15376	15293
20°	15394	15296	15182
25°	15286	15183	15007
30°	15122	15014	14798
35°	14898	14768	14557
40°	14559	14402	14141
45°	13965	13720	13438
50°	12919	12609	12360
55°	11276	11021	10789
60°	9502	9422	9236
65°	8219	8251	8188
70°	7550	7587	7587
75°	7251	7251	7301
80°	6822	6896	6822
85°	5498	6105	6105



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.6	3.8
10°-20°	679.7	10.8
20°-30°	1025.1	16.3
30°-40°	1221.4	19.5
40°-50°	1204.2	19.2
50°-60°	920.3	14.7
60°-70°	569.5	9.1
70°-80°	323.5	5.2
80°-90°	98.4	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°	1942.3	30.9
0°-40°	3163.8	50.4
0°-60°	5288.4	84.2
0°-90°	6279.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6279.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2512	2512	2512	2512	2512	
5°	2525	2498	2506	2497	2493	240
15°	2430	2404	2415	2406	2402	686
25°	2252	2225	2237	2213	2211	1037
35°	1984	1961	1967	1941	1939	1238
45°	1605	1584	1577	1549	1545	1230
55°	1052	1035	1028	1010	1006	942
65°	565	560	567	563	563	572
75°	305	305	305	307	307	322
85°	78	82	86	86	86	94
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2512.0	2512.0	2512.0	2512.0	2512.0
2.5°	2527.6	2505.6	2512.0	2506.6	2494.7
5°	2525.0	2497.5	2505.5	2496.8	2492.6
7.5°	2505.5	2478.5	2486.5	2477.8	2475.2
10°	2488.2	2462.8	2470.9	2462.2	2457.9
12.5°	2469.2	2442.1	2451.9	2441.4	2437.2
15°	2429.8	2404.4	2414.7	2405.9	2401.7
17.5°	2386.5	2359.5	2369.7	2359.6	2354.1
20°	2351.9	2326.5	2336.8	2321.6	2319.5
22.5°	2313.8	2288.4	2298.7	2278.3	2277.9
25°	2252.4	2224.9	2237.2	2213.4	2211.3
27.5°	2179.3	2153.9	2164.1	2139.8	2137.3
30°	2129.1	2103.7	2113.9	2087.9	2083.6
32.5°	2071.9	2048.2	2056.8	2030.8	2028.2
35°	1984.1	1960.8	1966.8	1940.8	1938.7
37.5°	1884.1	1863.0	1866.4	1837.8	1835.7
40°	1813.2	1792.0	1793.7	1763.3	1761.2
42.5°	1735.3	1714.1	1712.3	1682.0	1679.9
45°	1605.4	1584.3	1577.3	1549.1	1544.9
47.5°	1457.5	1436.3	1423.3	1400.3	1397.3
50°	1350.1	1329.0	1317.7	1298.1	1291.7
52.5°	1234.2	1213.0	1203.4	1185.6	1179.2
55°	1051.5	1034.6	1027.7	1010.3	1006.1
57.5°	878.0	866.6	864.6	847.7	846.0
60°	772.4	766.1	765.9	750.8	750.8
62.5°	682.4	677.8	681.1	671.1	669.4
65°	564.7	560.5	566.9	562.6	562.6
67.5°	471.7	471.7	475.6	473.8	473.8
70°	419.8	419.8	421.9	421.9	421.9
72.5°	373.0	371.3	376.9	376.9	375.2
75°	305.1	305.1	305.1	307.2	307.2
77.5°	237.6	238.0	239.7	239.3	237.6
80°	192.6	194.7	194.7	192.6	192.6
82.5°	147.6	149.7	149.7	149.3	147.6
85°	77.9	82.1	86.5	86.5	86.5
87.5°	22.5	29.3	34.6	34.6	32.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)