

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: P564219

Luminaire Tested: **SQ4-PR1-0U-125D-840-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564219
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-840-1D-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, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

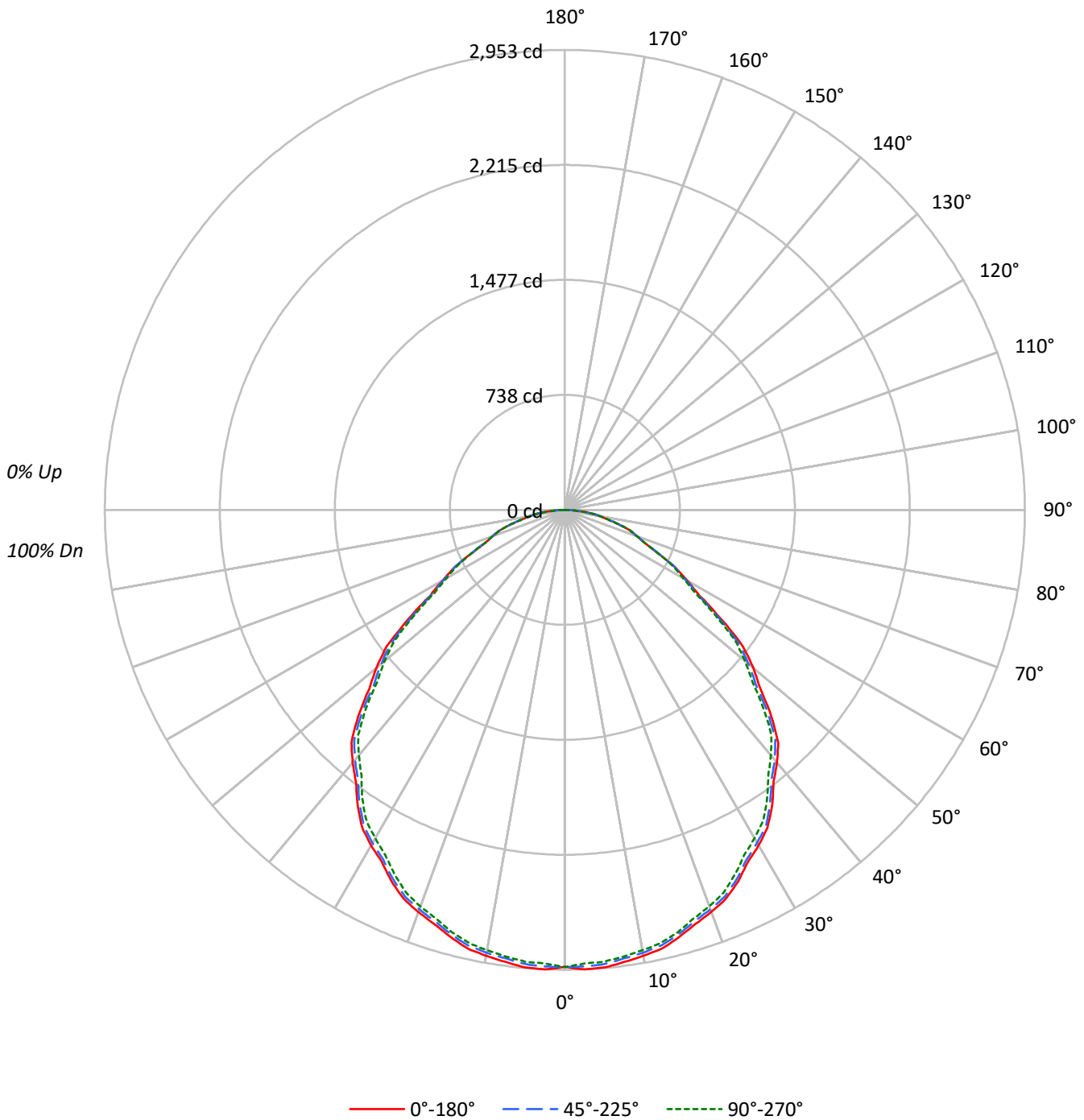
Lumens per Lamp: N/A
Luminaire Lumens: 7337.3 lumens
Efficiency: N/A
Efficacy: 105.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Direct

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	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°	18053	18053	18053
5°	18215	18075	17981
10°	18158	18031	17937
15°	18078	17965	17869
20°	17987	17871	17739
25°	17860	17740	17535
30°	17668	17542	17291
35°	17407	17255	17008
40°	17010	16828	16523
45°	16317	16031	15701
50°	15095	14732	14441
55°	13175	12877	12606
60°	11102	11009	10791
65°	9603	9639	9566
70°	8819	8866	8866
75°	8472	8472	8532
80°	7970	8058	7970
85°	6422	7135	7135



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	277.6	3.8
10°-20°	794.1	10.8
20°-30°	1197.8	16.3
30°-40°	1427.1	19.5
40°-50°	1407.0	19.2
50°-60°	1075.3	14.7
60°-70°	665.4	9.1
70°-80°	378.0	5.2
80°-90°	115.0	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°	2269.4	30.9
0°-40°	3696.6	50.4
0°-60°	6178.9	84.2
0°-90°	7337.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7337.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2935	2935	2935	2935	2935	
5°	2950	2918	2928	2917	2912	280
15°	2839	2809	2821	2811	2806	801
25°	2632	2600	2614	2586	2584	1211
35°	2318	2291	2298	2268	2265	1447
45°	1876	1851	1843	1810	1805	1437
55°	1229	1209	1201	1180	1176	1101
65°	660	655	662	657	657	668
75°	356	356	356	359	359	376
85°	91	96	101	101	101	109
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2935.1	2935.1	2935.1	2935.1	2935.1
2.5°	2953.3	2927.6	2935.1	2928.7	2914.8
5°	2950.2	2918.1	2927.5	2917.3	2912.3
7.5°	2927.5	2895.8	2905.2	2895.1	2892.1
10°	2907.3	2877.6	2887.0	2876.8	2871.9
12.5°	2885.0	2853.4	2864.8	2852.5	2847.6
15°	2839.0	2809.3	2821.3	2811.1	2806.1
17.5°	2788.4	2756.8	2768.7	2756.9	2750.5
20°	2748.0	2718.3	2730.3	2712.5	2710.1
22.5°	2703.5	2673.8	2685.8	2662.0	2661.5
25°	2631.7	2599.6	2614.0	2586.1	2583.7
27.5°	2546.2	2516.6	2528.6	2500.2	2497.2
30°	2487.6	2457.9	2469.9	2439.5	2434.5
32.5°	2420.9	2393.2	2403.2	2372.8	2369.8
35°	2318.2	2291.0	2298.0	2267.6	2265.1
37.5°	2201.4	2176.7	2180.7	2147.3	2144.8
40°	2118.5	2093.8	2095.8	2060.3	2057.8
42.5°	2027.5	2002.8	2000.7	1965.2	1962.8
45°	1875.8	1851.1	1842.9	1810.0	1805.0
47.5°	1702.9	1678.2	1662.9	1636.1	1632.6
50°	1577.5	1552.8	1539.6	1516.7	1509.2
52.5°	1442.0	1417.3	1406.1	1385.2	1377.8
55°	1228.6	1208.9	1200.8	1180.5	1175.5
57.5°	1025.9	1012.5	1010.2	990.4	988.5
60°	902.5	895.1	894.9	877.2	877.2
62.5°	797.3	791.9	795.8	784.2	782.2
65°	659.8	654.9	662.3	657.3	657.3
67.5°	551.1	551.1	555.7	553.6	553.6
70°	490.4	490.4	493.0	493.0	493.0
72.5°	435.8	433.9	440.4	440.3	438.4
75°	356.5	356.5	356.5	359.0	359.0
77.5°	277.6	278.1	280.1	279.6	277.6
80°	225.0	227.5	227.5	225.0	225.0
82.5°	172.4	174.9	174.9	174.4	172.4
85°	91.0	96.0	101.1	101.1	101.1
87.5°	26.3	34.2	40.4	40.4	38.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)