

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: P564215

Luminaire Tested: **SQ4-PR1-0U-125D-835-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564215
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-835-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

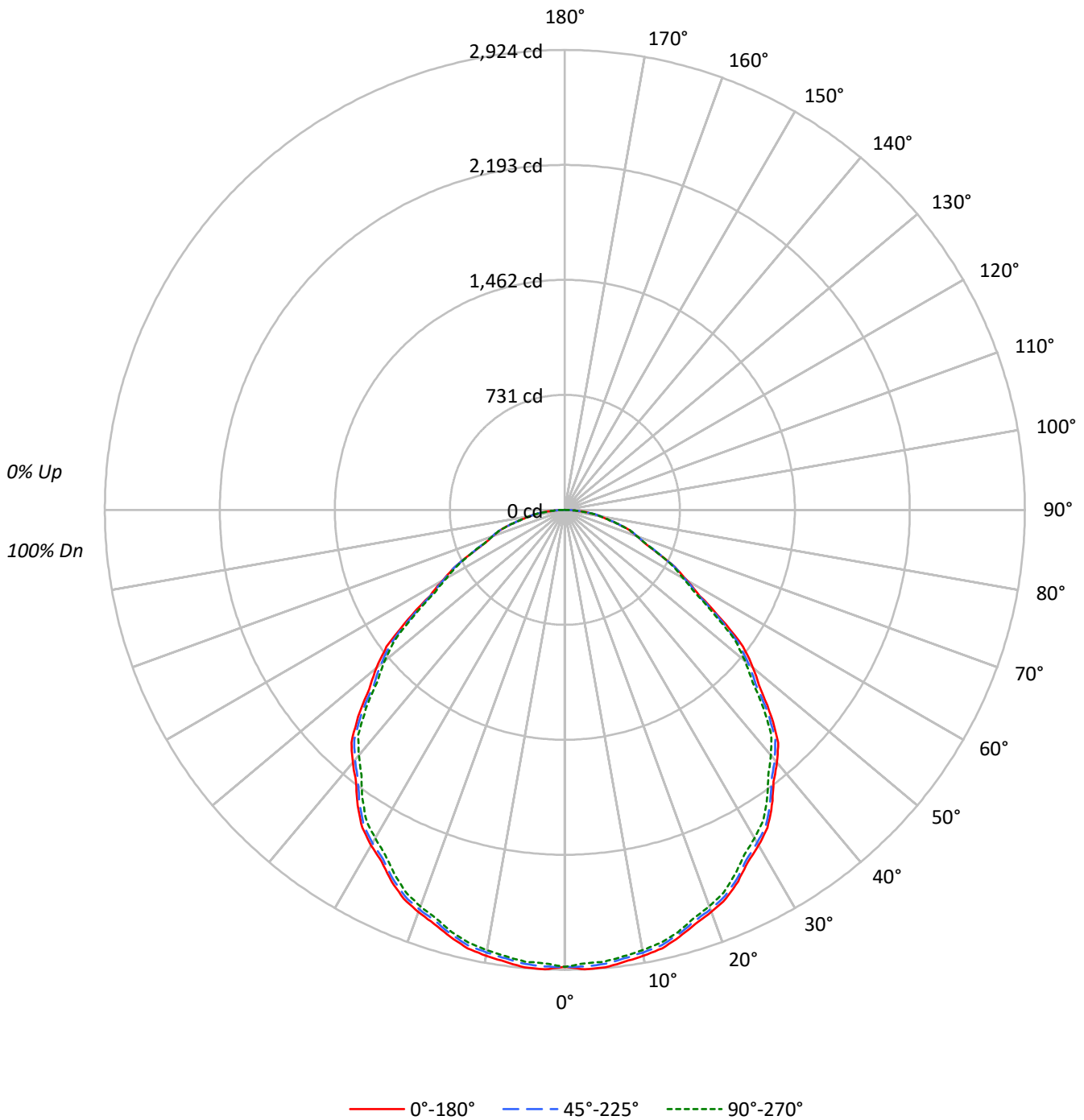
Lumens per Lamp: N/A
Luminaire Lumens: 7264.2 lumens
Efficiency: N/A
Efficacy: 104.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Direct

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°	17873	17873	17873
5°	18034	17895	17802
10°	17977	17852	17758
15°	17898	17786	17691
20°	17808	17693	17562
25°	17683	17564	17360
30°	17492	17367	17119
35°	17233	17083	16839
40°	16841	16660	16358
45°	16154	15871	15544
50°	14945	14585	14298
55°	13044	12749	12480
60°	10991	10899	10684
65°	9507	9543	9470
70°	8733	8778	8778
75°	8387	8387	8446
80°	7892	7980	7892
85°	6359	7064	7064



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.8	3.8
10°-20°	786.2	10.8
20°-30°	1185.8	16.3
30°-40°	1412.9	19.5
40°-50°	1393.0	19.2
50°-60°	1064.6	14.7
60°-70°	658.8	9.1
70°-80°	374.2	5.2
80°-90°	113.8	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°	2246.8	30.9
0°-40°	3659.7	50.4
0°-60°	6117.4	84.2
0°-90°	7264.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7264.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2906	2906	2906	2906	2906	
5°	2921	2889	2898	2888	2883	277
15°	2811	2781	2793	2783	2778	793
25°	2606	2574	2588	2560	2558	1199
35°	2295	2268	2275	2245	2243	1432
45°	1857	1833	1825	1792	1787	1423
55°	1216	1197	1189	1169	1164	1090
65°	653	648	656	651	651	662
75°	353	353	353	355	355	373
85°	90	95	100	100	100	108
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2905.8	2905.8	2905.8	2905.8	2905.8
2.5°	2923.8	2898.4	2905.8	2899.5	2885.8
5°	2920.8	2889.0	2898.3	2888.2	2883.3
7.5°	2898.3	2867.0	2876.3	2866.2	2863.3
10°	2878.3	2848.9	2858.3	2848.1	2843.3
12.5°	2856.3	2824.9	2836.2	2824.1	2819.2
15°	2810.7	2781.3	2793.2	2783.1	2778.2
17.5°	2760.7	2729.3	2741.1	2729.5	2723.1
20°	2720.6	2691.2	2703.1	2685.5	2683.1
22.5°	2676.6	2647.2	2659.0	2635.5	2635.0
25°	2605.5	2573.7	2588.0	2560.4	2557.9
27.5°	2520.9	2491.5	2503.4	2475.3	2472.3
30°	2462.8	2433.4	2445.3	2415.2	2410.3
32.5°	2396.7	2369.3	2379.2	2349.1	2346.2
35°	2295.1	2268.2	2275.1	2245.0	2242.6
37.5°	2179.5	2155.0	2159.0	2125.9	2123.4
40°	2097.4	2072.9	2074.9	2039.8	2037.3
42.5°	2007.3	1982.8	1980.8	1945.7	1943.2
45°	1857.1	1832.7	1824.6	1791.9	1787.0
47.5°	1685.9	1661.5	1646.4	1619.8	1616.3
50°	1561.8	1537.3	1524.2	1501.6	1494.2
52.5°	1427.6	1403.2	1392.1	1371.4	1364.1
55°	1216.4	1196.8	1188.9	1168.7	1163.8
57.5°	1015.7	1002.4	1000.1	980.6	978.6
60°	893.5	886.2	886.0	868.5	868.5
62.5°	789.4	784.0	787.9	776.3	774.4
65°	653.2	648.4	655.7	650.7	650.7
67.5°	545.6	545.6	550.1	548.1	548.1
70°	485.6	485.6	488.1	488.1	488.1
72.5°	431.5	429.5	436.0	436.0	434.0
75°	352.9	352.9	352.9	355.4	355.4
77.5°	274.8	275.3	277.3	276.8	274.8
80°	222.8	225.2	225.3	222.8	222.8
82.5°	170.7	173.1	173.2	172.7	170.7
85°	90.1	95.0	100.1	100.1	100.1
87.5°	26.0	33.9	40.0	40.0	38.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)