

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: P563543

Luminaire Tested: **SQ4-PP3-0U-125D-835-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563543
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-0U-125D-835-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

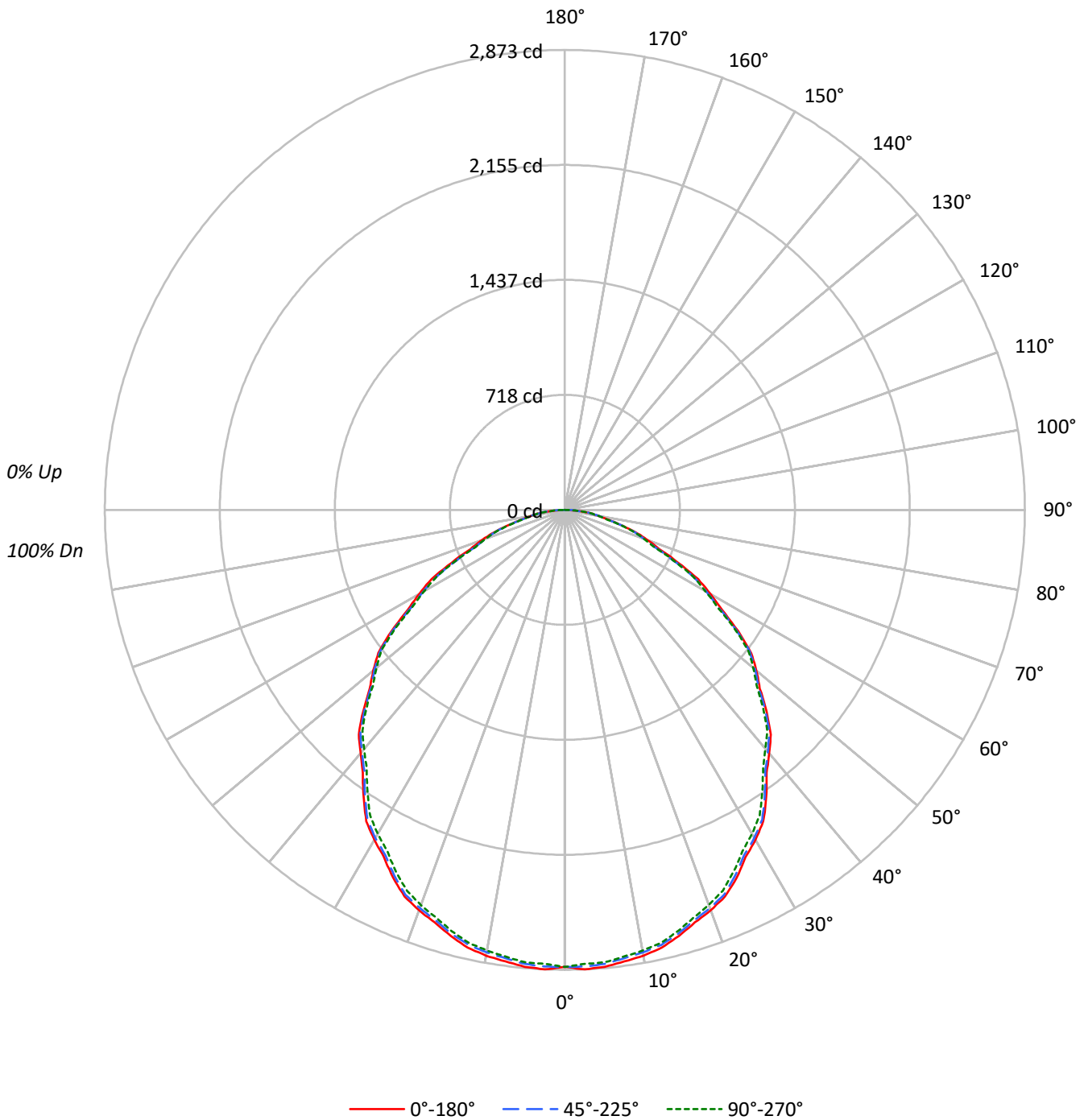
Lumens per Lamp: N/A
Luminaire Lumens: 7307.5 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Direct

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				100
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85				85
2	100	92	86	80	97	90	84	79	87	82	77	84	79	76	81	77	74	72				72
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61				61
4	84	72	64	57	82	71	63	57	69	62	56	66	60	56	64	59	55	53				53
5	77	65	56	50	75	64	56	49	62	54	49	60	53	48	58	52	48	46				46
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42	40				40
7	66	53	45	39	65	52	44	39	51	44	38	49	43	38	48	42	38	36				36
8	62	49	40	35	60	48	40	34	47	39	34	45	39	34	44	38	34	32				32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29				29
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26				26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17561	17561	17561
5°	17690	17582	17520
10°	17660	17535	17457
15°	17543	17448	17352
20°	17427	17329	17198
25°	17220	17101	16931
30°	16901	16813	16599
35°	16459	16347	16140
40°	15933	15832	15652
45°	15497	15389	15236
50°	14941	14845	14702
55°	14168	13980	13873
60°	12898	12528	12466
65°	11362	10889	10853
70°	9810	9405	9405
75°	8444	8325	8206
80°	7446	7534	7357
85°	5829	6359	6359



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.0	3.7
10°-20°	770.9	10.5
20°-30°	1154.7	15.8
30°-40°	1354.4	18.5
40°-50°	1358.6	18.6
50°-60°	1159.0	15.9
60°-70°	755.9	10.3
70°-80°	379.2	5.2
80°-90°	104.9	1.4
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°	2195.5	30.0
0°-40°	3549.9	48.6
0°-60°	6067.5	83.0
0°-90°	7307.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7307.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2855	2855	2855	2855	2855	
5°	2865	2838	2848	2838	2838	272
15°	2755	2728	2740	2730	2725	777
25°	2537	2508	2520	2497	2495	1167
35°	2192	2170	2177	2152	2150	1369
45°	1782	1769	1769	1752	1752	1372
55°	1321	1316	1304	1296	1294	1174
65°	781	766	748	743	746	779
75°	355	355	350	348	345	385
85°	83	90	90	90	90	100
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2855.1	2855.1	2855.1	2855.1	2855.1
2.5°	2873.1	2849.6	2855.1	2850.8	2839.1
5°	2865.1	2838.2	2847.6	2837.6	2837.6
7.5°	2845.6	2816.2	2825.6	2815.5	2815.1
10°	2827.6	2798.2	2807.6	2797.5	2795.0
12.5°	2801.5	2772.2	2783.5	2771.5	2771.0
15°	2755.0	2728.1	2740.0	2729.9	2725.0
17.5°	2702.5	2673.1	2687.4	2673.4	2671.4
20°	2662.4	2633.1	2647.4	2627.4	2627.4
22.5°	2614.4	2585.0	2601.4	2575.3	2575.3
25°	2537.3	2507.9	2519.8	2497.2	2494.8
27.5°	2445.7	2416.9	2429.2	2403.7	2403.2
30°	2379.7	2352.7	2367.2	2339.6	2337.1
32.5°	2307.6	2282.6	2293.1	2265.5	2263.1
35°	2192.0	2170.0	2177.0	2151.9	2149.5
37.5°	2070.4	2047.9	2055.9	2034.3	2033.3
40°	1984.3	1969.6	1971.8	1954.2	1949.3
42.5°	1904.2	1887.6	1889.7	1872.2	1871.2
45°	1781.6	1769.4	1769.1	1751.6	1751.6
47.5°	1651.5	1642.2	1639.5	1625.0	1624.5
50°	1561.4	1554.1	1551.4	1538.8	1536.4
52.5°	1467.3	1463.9	1455.3	1444.8	1444.3
55°	1321.2	1316.3	1303.7	1296.1	1293.7
57.5°	1162.6	1152.8	1138.5	1127.6	1129.5
60°	1048.5	1038.7	1018.4	1013.4	1013.4
62.5°	938.4	926.6	906.3	899.4	903.3
65°	780.7	766.0	748.2	743.2	745.7
67.5°	637.6	624.4	605.1	605.0	603.0
70°	545.5	538.2	523.0	523.0	523.0
72.5°	463.4	460.0	448.9	448.9	446.9
75°	355.3	355.3	350.3	347.8	345.3
77.5°	266.2	267.2	264.7	262.1	257.7
80°	210.2	215.1	212.7	210.1	207.7
82.5°	158.1	163.0	162.6	158.1	157.6
85°	82.6	89.9	90.1	90.1	90.1
87.5°	22.0	29.8	32.0	32.1	34.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)