

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: P519349

Luminaire Tested: **SQ4-WB-0U-125D-935-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519349
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2009-966-13)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-WB-0U-125D-935-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1250 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

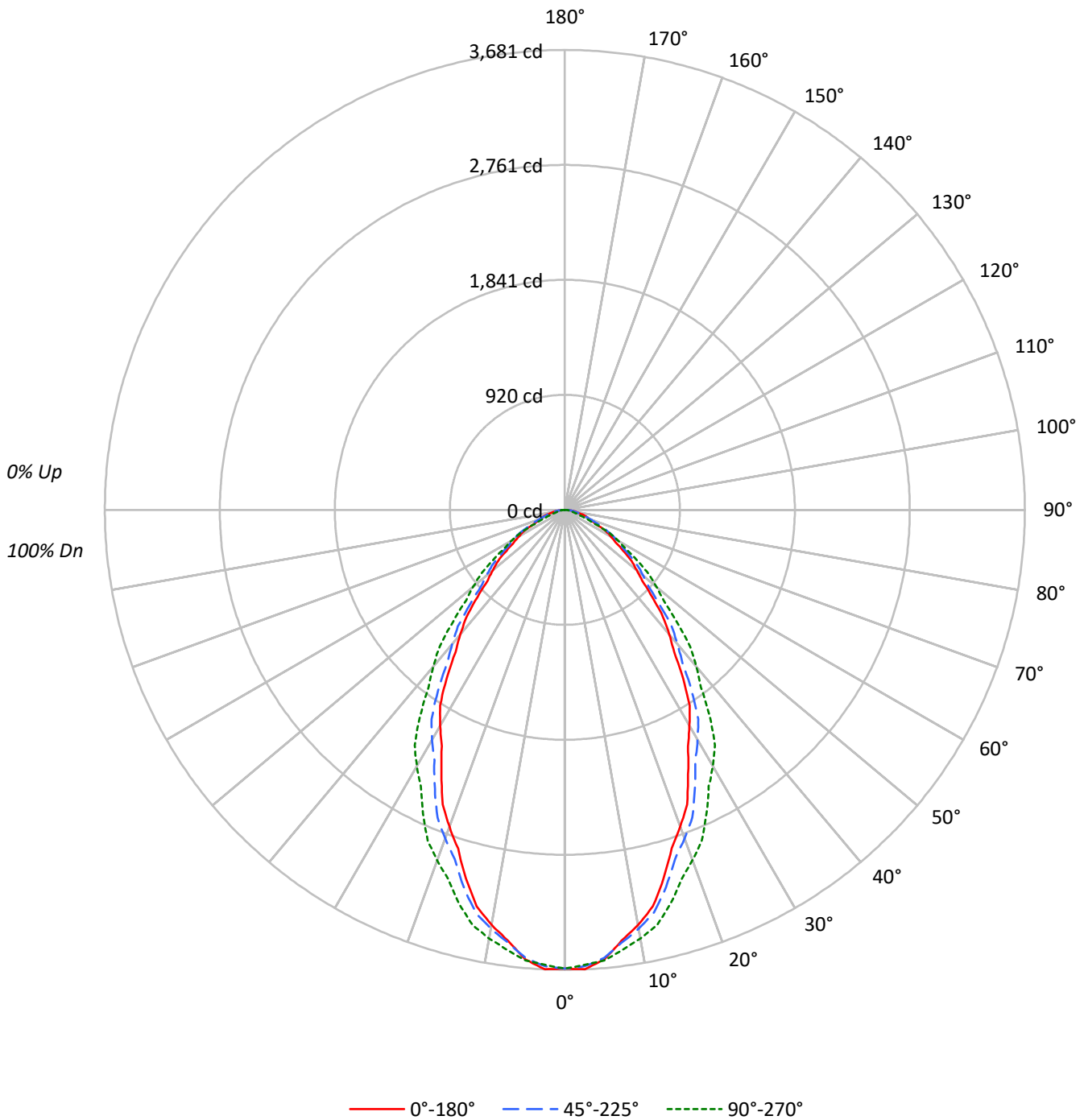
Lumens per Lamp: N/A
Luminaire Lumens: 5350.2 lumens
Efficiency: N/A
Efficacy: 76.8 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Direct

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	111	107	104	101	109	105	102	99	101	99	96		97	95	93		94	92	91	89
2	103	97	91	87	101	95	90	86	92	87	84		88	85	82		85	83	80	78
3	96	87	81	75	94	86	80	75	83	78	73		80	76	72		78	74	71	69
4	89	79	72	66	87	78	71	66	76	70	65		74	68	64		71	67	64	62
5	83	72	65	59	81	71	64	59	69	63	58		67	62	58		66	61	57	55
6	78	66	59	53	76	65	58	53	64	57	53		62	56	52		61	56	52	50
7	73	61	53	48	71	60	53	48	59	52	48		58	52	47		56	51	47	45
8	68	57	49	44	67	56	49	44	55	48	44		53	48	43		52	47	43	41
9	64	53	45	40	63	52	45	40	51	45	40		50	44	40		49	44	40	38
10	61	49	42	37	60	48	42	37	48	41	37		47	41	37		46	41	37	35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	22583	22583	22583
5°	22302	22222	22351
10°	21070	21261	21754
15°	19450	19902	20795
20°	17663	18328	19540
25°	15843	16707	18205
30°	14166	15092	16820
35°	12387	13282	15182
40°	10426	11254	13142
45°	8605	9347	10972
50°	7183	7831	9141
55°	6099	6720	7549
60°	5212	5826	6025
65°	4151	4900	3892
70°	3679	3825	2376
75°	3408	3101	1454
80°	3138	2855	1254
85°	2844	2618	1023



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	336.8	6.3
10°-20°	876.0	16.4
20°-30°	1134.6	21.2
30°-40°	1111.1	20.8
40°-50°	850.5	15.9
50°-60°	566.7	10.6
60°-70°	309.2	5.8
70°-80°	128.9	2.4
80°-90°	36.5	0.7
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°	2347.3	43.9
0°-40°	3458.4	64.6
0°-60°	4875.6	91.1
0°-90°	5350.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5350.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3672	3672	3672	3672	3672	
5°	3612	3576	3599	3607	3620	336
15°	3054	3044	3125	3210	3266	853
25°	2334	2341	2462	2569	2682	1074
35°	1650	1658	1769	1888	2022	1026
45°	989	1008	1075	1156	1261	771
55°	569	592	627	650	704	516
65°	285	309	337	294	267	296
75°	143	143	130	90	61	153
85°	40	40	37	24	14	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3671.6	3671.6	3671.6	3671.6	3671.6
2.5°	3680.6	3647.8	3656.1	3655.9	3645.8
5°	3612.0	3575.7	3599.1	3607.4	3620.0
7.5°	3477.9	3450.5	3493.1	3524.6	3550.1
10°	3373.5	3349.9	3404.1	3450.0	3483.1
12.5°	3252.4	3232.5	3299.7	3361.3	3404.5
15°	3054.5	3043.5	3125.4	3210.5	3265.6
17.5°	2842.8	2837.5	2931.5	3030.7	3101.3
20°	2698.5	2696.9	2800.0	2903.4	2985.3
22.5°	2552.9	2556.3	2664.7	2772.1	2865.4
25°	2334.4	2340.7	2461.7	2569.0	2682.4
27.5°	2132.4	2135.2	2260.3	2373.6	2494.5
30°	1994.5	2002.3	2125.0	2242.2	2368.2
32.5°	1856.6	1865.7	1985.8	2106.9	2235.5
35°	1649.7	1657.6	1768.9	1888.0	2021.9
37.5°	1436.4	1447.1	1546.0	1658.5	1790.2
40°	1298.5	1314.3	1401.6	1507.6	1636.8
42.5°	1165.8	1185.3	1266.3	1366.9	1483.4
45°	989.2	1008.1	1074.6	1155.9	1261.4
47.5°	837.1	858.8	909.9	980.0	1070.1
50°	750.7	771.2	818.4	870.3	955.3
52.5°	674.7	695.2	737.2	777.2	849.7
55°	568.7	592.3	626.7	650.5	704.0
57.5°	481.7	504.4	531.6	542.4	574.8
60°	423.7	448.9	473.6	472.4	489.8
62.5°	370.9	392.3	416.9	399.9	400.8
65°	285.2	308.8	336.7	294.2	267.4
67.5°	230.4	235.4	264.2	205.2	173.3
70°	204.6	204.6	212.7	158.9	132.1
72.5°	180.1	180.1	172.7	129.2	101.2
75°	143.4	143.4	130.5	89.6	61.2
77.5°	110.5	109.3	99.9	66.8	44.5
80°	88.6	88.6	80.6	52.8	35.4
82.5°	69.3	69.3	62.5	41.2	26.4
85°	40.3	40.3	37.1	24.0	14.5
87.5°	14.2	14.2	12.9	7.7	6.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)