

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: P519157

Luminaire Tested: **SQ4-WB-050U-125D-935-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519157
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, 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-050U-125D-935-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

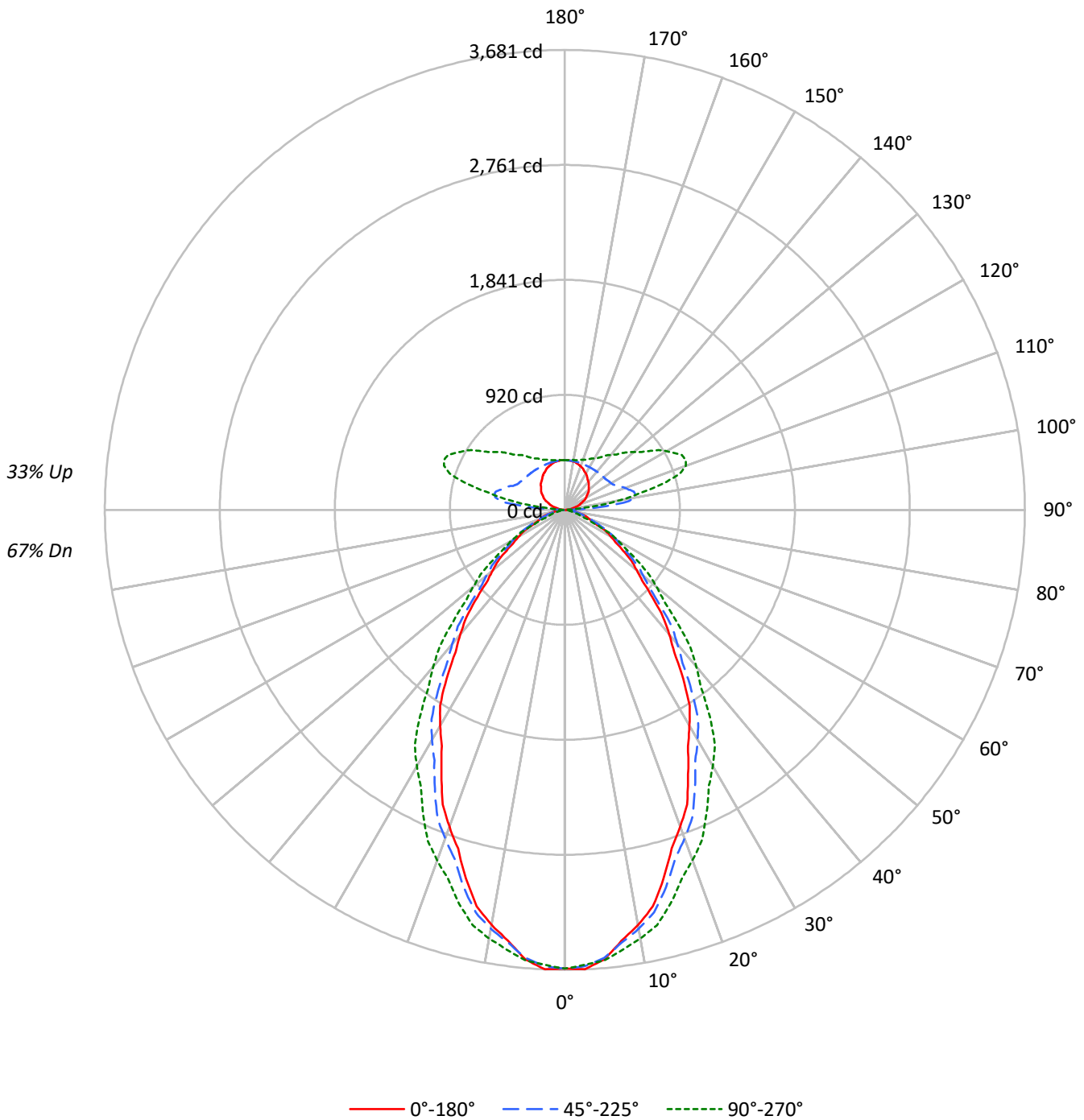
Lumens per Lamp: N/A
Luminaire Lumens: 7947.8 lumens
Efficiency: N/A
Efficacy: 90.5 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 87.8
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									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	50	30	10	50	30	10	50	30	10	0																
RCR																																														
0	111	111	111	111	105	105	105	105	93	93	93	82	82	82	72	72	72	67																												
1	103	99	96	93	97	94	91	88	84	82	80	75	73	71	66	65	64	60																												
2	95	89	83	79	90	84	79	75	75	72	69	67	65	62	60	58	56	53																												
3	88	79	73	67	83	75	70	65	68	63	60	61	58	55	55	52	50	47																												
4	81	72	64	59	77	68	62	57	62	57	52	56	52	48	50	47	44	41																												
5	76	65	57	52	71	62	55	50	56	51	47	51	47	43	46	43	40	37																												
6	70	59	51	46	66	56	49	44	51	46	42	47	42	39	42	39	36	34																												
7	65	54	46	41	62	52	45	40	47	42	38	43	39	35	39	36	33	31																												
8	61	50	42	37	58	48	41	36	44	38	34	40	35	32	37	33	30	28																												
9	57	46	39	34	54	44	37	33	40	35	31	37	33	29	34	30	28	26																												
10	54	42	36	31	51	41	34	30	38	32	29	35	30	27	32	28	25	24																												

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	4.2
10°-20°	876.0	11.0
20°-30°	1134.6	14.3
30°-40°	1111.1	14.0
40°-50°	850.5	10.7
50°-60°	566.7	7.1
60°-70°	309.2	3.9
70°-80°	128.9	1.6
80°-90°	38.0	0.5
90°-100°	190.9	2.4
100°-110°	518.5	6.5
110°-120°	533.1	6.7
120°-130°	426.2	5.4
130°-140°	334.9	4.2
140°-150°	256.8	3.2
150°-160°	184.7	2.3
160°-170°	112.9	1.4
170°-180°	38.1	0.5
0°-30°	2347.3	29.5
0°-40°	3458.4	43.5
0°-60°	4875.6	61.3
0°-90°	5351.7	67.3
90°-120°	1242.5	15.6
90°-150°	2260.4	28.4
90°-180°	2596.0	32.7
0°-180°	7947.8	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	44
90°	1	5	9	12	12	4
95°	28	104	332	145	97	30
105°	92	143	570	868	817	98
115°	164	199	456	908	1034	161
125°	225	256	413	696	821	201
135°	271	301	402	567	639	210
145°	313	336	396	482	518	197
155°	354	367	394	432	445	163
165°	384	389	395	412	413	108
175°	398	399	396	401	400	38
180°	398	398	398	398	398	

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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°	14.4	15.2	14.7	10.0	8.7
90°	1.3	5.0	8.9	11.5	11.5
92.5°	11.5	52.3	90.8	39.0	33.0
95°	28.1	104.4	332.4	144.7	97.2
97.5°	46.5	115.3	509.6	396.5	278.5
100°	58.8	122.6	563.8	571.5	461.5
102.5°	71.1	129.8	578.1	706.9	609.8
105°	92.1	143.3	570.2	868.2	817.0
107.5°	113.8	159.0	537.2	951.5	965.8
110°	129.1	170.4	512.7	967.9	1029.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	142.4	181.7	488.1	954.3	1046.6
115°	163.6	198.7	456.4	908.1	1034.3
117.5°	183.6	217.1	436.2	842.4	984.7
120°	196.9	229.4	427.0	798.4	939.7
122.5°	208.1	240.6	420.9	754.3	890.6
125°	225.0	256.3	413.0	695.8	820.8
127.5°	240.1	271.1	408.6	651.4	758.7
130°	249.3	279.3	406.6	623.5	719.8
132.5°	258.5	288.5	404.5	599.8	685.0
135°	271.0	301.0	401.5	566.7	639.3
137.5°	284.6	311.8	399.9	537.6	598.6
140°	292.8	319.0	398.9	519.0	574.0
142.5°	301.0	325.2	397.9	504.5	550.5
145°	313.2	335.7	396.3	481.5	517.8
147.5°	327.0	346.3	395.1	463.5	492.0
150°	336.2	352.5	395.1	453.1	475.6
152.5°	343.4	357.7	394.0	443.8	462.3
155°	354.1	366.6	393.8	432.4	444.9
157.5°	364.6	374.4	393.8	424.7	434.2
160°	370.8	379.5	393.8	419.5	427.0
162.5°	376.9	383.7	394.8	415.4	420.9
165°	383.6	388.6	395.1	411.7	413.0
167.5°	390.5	393.0	396.3	407.4	408.4
170°	392.5	395.0	396.3	405.3	405.3
172.5°	394.5	396.0	396.3	403.2	403.2
175°	397.6	398.9	396.3	401.4	400.2
177.5°	398.6	398.6	395.6	399.6	397.6
180°	397.6	397.6	397.6	397.6	397.6

(END OF REPORT)