

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: P519155

Luminaire Tested: **SQ4-WB-050U-125D-935-1D-UNV-STD-W-12**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519155
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-12
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

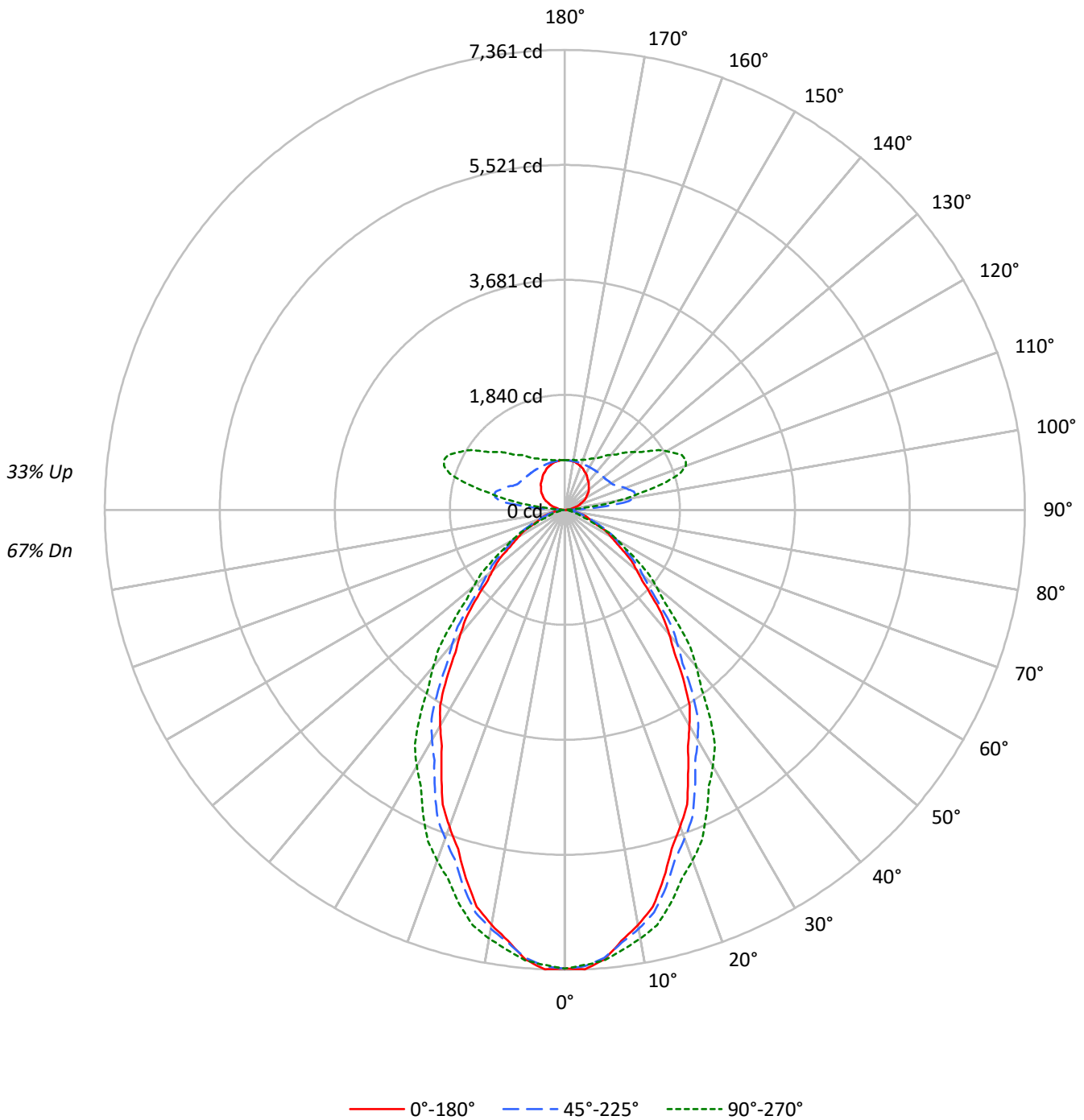
Lumens per Lamp: N/A
Luminaire Lumens: 15895.6 lumens
Efficiency: N/A
Efficacy: 95.2 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 167
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	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°	22301	22222	22351
10°	21070	21261	21754
15°	19451	19902	20795
20°	17663	18328	19540
25°	15843	16706	18205
30°	14165	15092	16820
35°	12387	13283	15182
40°	10426	11254	13142
45°	8605	9347	10973
50°	7184	7831	9142
55°	6099	6720	7550
60°	5212	5827	6025
65°	4150	4900	3892
70°	3679	3824	2376
75°	3408	3101	1454
80°	3138	2853	1256
85°	2844	2615	1023



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	673.5	4.2
10°-20°	1751.9	11.0
20°-30°	2269.2	14.3
30°-40°	2222.1	14.0
40°-50°	1700.9	10.7
50°-60°	1133.4	7.1
60°-70°	618.5	3.9
70°-80°	257.7	1.6
80°-90°	76.0	0.5
90°-100°	381.7	2.4
100°-110°	1037.0	6.5
110°-120°	1066.3	6.7
120°-130°	852.5	5.4
130°-140°	669.8	4.2
140°-150°	513.6	3.2
150°-160°	369.4	2.3
160°-170°	225.9	1.4
170°-180°	76.1	0.5
0°-30°	4694.7	29.5
0°-40°	6916.8	43.5
0°-60°	9751.1	61.3
0°-90°	10703.3	67.3
90°-120°	2485.0	15.6
90°-150°	4521.0	28.4
90°-180°	5192.0	32.7
0°-180°	15895.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7343	7343	7343	7343	7343	
5°	7224	7152	7198	7215	7240	672
15°	6109	6087	6251	6421	6531	1706
25°	4669	4681	4923	5138	5365	2147
35°	3299	3315	3538	3776	4044	2051
45°	1978	2016	2149	2312	2523	1543
55°	1137	1185	1253	1301	1408	1031
65°	570	618	673	588	535	593
75°	287	287	261	179	122	306
85°	81	81	74	48	29	88
90°	3	10	18	23	23	8
95°	56	209	665	289	194	60
105°	184	287	1140	1736	1634	196
115°	327	397	913	1816	2069	323
125°	450	512	826	1392	1642	401
135°	542	602	803	1134	1278	419
145°	626	672	793	963	1036	393
155°	708	733	788	865	890	327
165°	767	777	790	823	826	217
175°	795	798	793	803	800	76
180°	795	795	795	795	795	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7343.1	7343.1	7343.1	7343.1	7343.1
2.5°	7361.2	7295.6	7312.2	7311.7	7291.6
5°	7223.9	7151.5	7198.1	7214.8	7240.0
7.5°	6955.8	6901.0	6986.1	7049.2	7100.2
10°	6747.0	6699.8	6808.3	6900.0	6966.2
12.5°	6504.7	6465.1	6599.5	6722.6	6808.9
15°	6109.1	6087.0	6250.8	6420.9	6531.2
17.5°	5685.7	5675.0	5862.9	6061.4	6202.5
20°	5397.0	5393.8	5600.0	5806.7	5970.5
22.5°	5105.7	5112.6	5329.3	5544.3	5730.8
25°	4668.8	4681.4	4923.3	5137.9	5364.8
27.5°	4264.8	4270.4	4520.6	4747.1	4989.1
30°	3988.9	4004.7	4249.9	4484.4	4736.5
32.5°	3713.1	3731.4	3971.5	4213.9	4471.0
35°	3299.4	3315.2	3537.9	3775.9	4043.7
37.5°	2872.8	2894.2	3091.9	3317.0	3580.4
40°	2597.0	2628.5	2803.2	3015.3	3273.6
42.5°	2331.5	2370.6	2532.6	2733.8	2966.9
45°	1978.4	2016.2	2149.1	2311.8	2522.9
47.5°	1674.2	1717.7	1819.8	1959.9	2140.1
50°	1501.5	1542.4	1636.8	1740.6	1910.7
52.5°	1349.4	1390.4	1474.4	1554.4	1699.3
55°	1137.4	1184.7	1253.4	1300.9	1408.1
57.5°	963.4	1008.8	1063.3	1084.7	1149.6
60°	847.4	897.8	947.3	944.9	979.5
62.5°	741.7	784.6	833.9	799.8	801.7
65°	570.3	617.6	673.4	588.4	534.9
67.5°	460.8	470.8	528.4	410.3	346.7
70°	409.2	409.2	425.3	317.8	264.2
72.5°	360.2	360.2	345.4	258.4	202.3
75°	286.8	286.8	261.0	179.1	122.4
77.5°	221.0	218.5	199.8	133.7	88.9
80°	177.2	177.2	161.1	105.5	70.9
82.5°	138.5	138.5	125.0	82.5	52.8
85°	80.6	80.6	74.1	47.9	29.0
87.5°	28.9	30.4	29.4	20.0	17.5
90°	2.6	10.1	17.9	23.0	23.0
92.5°	23.0	104.5	181.5	78.0	66.0
95°	56.3	208.8	664.8	289.3	194.3
97.5°	93.1	230.6	1019.2	792.9	556.9
100°	117.6	245.1	1127.6	1143.1	923.1
102.5°	142.2	259.7	1156.3	1413.7	1219.7
105°	184.1	286.6	1140.4	1736.4	1633.9
107.5°	227.6	318.1	1074.5	1903.1	1931.6
110°	258.3	340.8	1025.4	1935.9	2058.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	284.9	363.4	976.3	1908.7	2093.2
115°	327.3	397.3	912.9	1816.1	2068.6
117.5°	367.2	434.2	872.5	1684.9	1969.4
120°	393.8	458.8	854.0	1596.9	1879.4
122.5°	416.3	481.3	841.8	1508.7	1781.2
125°	450.0	512.5	825.9	1391.6	1641.6
127.5°	480.2	542.2	817.2	1302.8	1517.3
130°	498.6	558.6	813.1	1247.1	1439.6
132.5°	517.0	577.0	809.0	1199.5	1370.0
135°	542.1	602.1	802.9	1133.5	1278.5
137.5°	569.2	623.7	799.8	1075.2	1197.2
140°	585.6	638.1	797.8	1038.1	1148.1
142.5°	601.9	650.4	795.7	1009.0	1101.0
145°	626.5	671.5	792.7	963.1	1035.6
147.5°	654.1	692.6	790.1	926.9	983.9
150°	672.5	705.0	790.1	906.2	951.2
152.5°	686.8	715.3	788.1	887.6	924.6
155°	708.3	733.3	787.6	864.8	889.8
157.5°	729.3	748.8	787.6	849.4	868.4
160°	741.5	759.0	787.6	839.0	854.0
162.5°	753.8	767.3	789.6	830.8	841.8
165°	767.1	777.1	790.1	823.4	825.9
167.5°	780.9	785.9	792.7	814.7	816.7
170°	785.0	790.0	792.7	810.6	810.6
172.5°	789.1	792.1	792.7	806.5	806.5
175°	795.2	797.7	792.7	802.8	800.3
177.5°	797.3	797.3	791.1	799.2	795.2
180°	795.2	795.2	795.2	795.2	795.2

(END OF REPORT)