

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: P519003

Luminaire Tested: **SQ4-WB-025U-075D-840-1D-UNV-STD-W-12**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519003
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-025U-075D-840-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

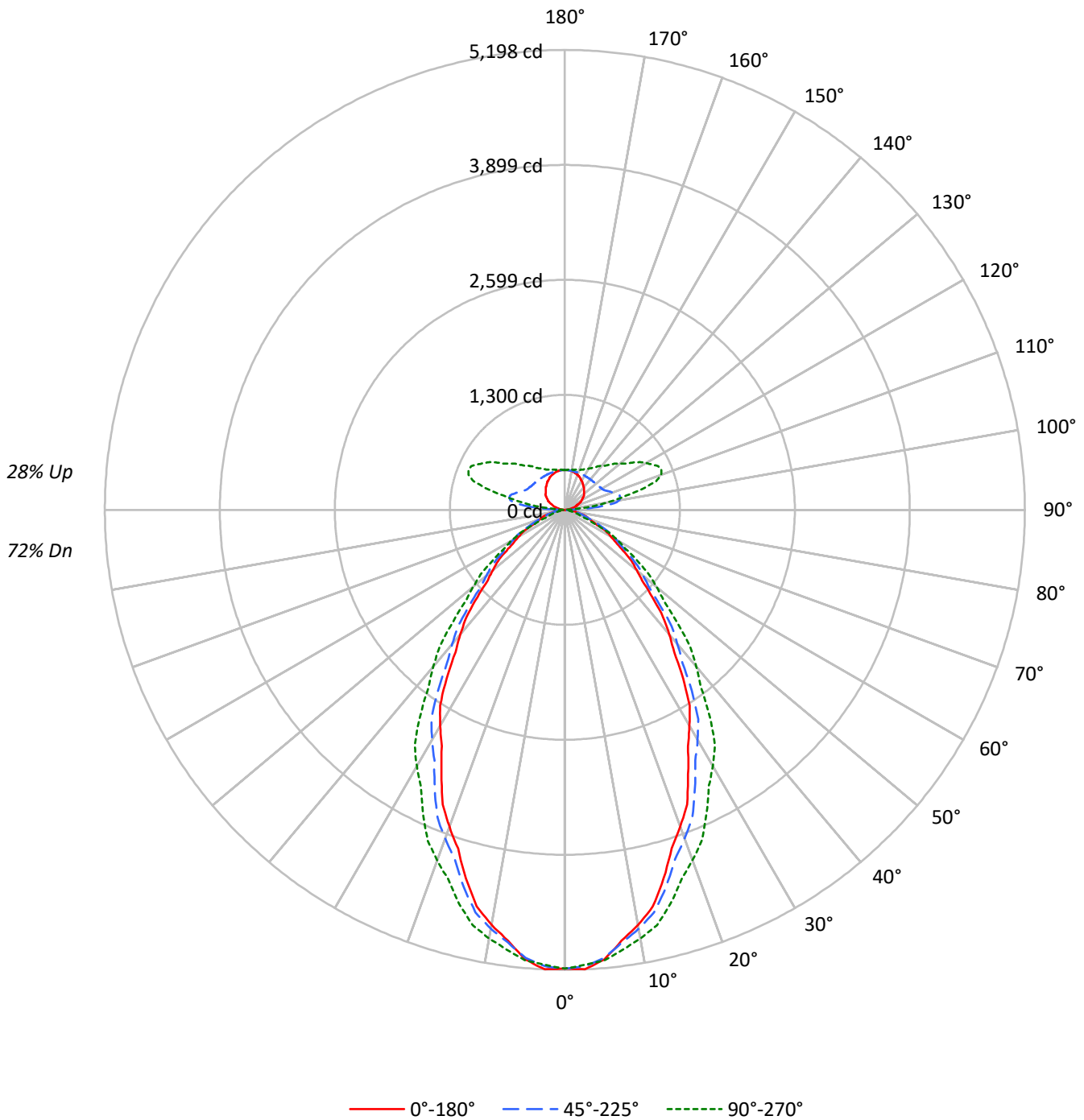
Lumens per Lamp: N/A
Luminaire Lumens: 10484.9 lumens
Efficiency: N/A
Efficacy: 110.6 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 94.8
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	
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	112	112	112	112	107	107	107	107	96	96	96	86	86	86	76	76	76	72
1	104	101	97	94	99	96	93	90	86	84	82	78	76	75	70	69	68	64
2	96	90	84	80	91	86	81	77	78	74	71	70	68	65	64	62	60	56
3	89	81	74	69	85	77	71	66	70	66	62	64	60	57	58	55	53	50
4	83	73	65	60	78	70	63	58	64	58	54	58	54	51	53	50	47	44
5	77	66	58	53	73	63	56	51	58	52	48	53	49	45	49	45	42	40
6	71	60	52	47	68	58	51	46	53	47	43	49	44	41	45	41	38	36
7	67	55	47	42	63	53	46	41	49	43	39	45	40	37	42	38	35	33
8	62	51	43	38	59	49	42	37	45	40	35	42	37	34	39	35	32	30
9	58	47	40	35	56	45	39	34	42	36	32	39	34	31	36	32	29	27
10	55	43	36	32	52	42	35	31	39	34	30	36	32	28	34	30	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15946	15946	15946
5°	15747	15691	15782
10°	14878	15012	15361
15°	13734	14053	14683
20°	12472	12941	13797
25°	11187	11797	12854
30°	10002	10657	11877
35°	8747	9379	10720
40°	7362	7947	9280
45°	6076	6600	7748
50°	5072	5530	6455
55°	4306	4745	5331
60°	3681	4114	4254
65°	2930	3460	2749
70°	2598	2700	1678
75°	2406	2190	1028
80°	2216	2015	887
85°	2008	1845	723



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	475.6	4.5
10°-20°	1237.0	11.8
20°-30°	1602.3	15.3
30°-40°	1569.0	15.0
40°-50°	1201.0	11.5
50°-60°	800.3	7.6
60°-70°	436.7	4.2
70°-80°	182.0	1.7
80°-90°	53.9	0.5
90°-100°	220.1	2.1
100°-110°	578.6	5.5
110°-120°	600.0	5.7
120°-130°	481.3	4.6
130°-140°	377.6	3.6
140°-150°	289.8	2.8
150°-160°	208.7	2.0
160°-170°	127.7	1.2
170°-180°	43.1	0.4
0°-30°	3314.9	31.6
0°-40°	4884.0	46.6
0°-60°	6885.3	65.7
0°-90°	7557.9	72.1
90°-120°	1398.7	13.3
90°-150°	2547.3	24.3
90°-180°	2927.0	27.9
0°-180°	10484.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5185	5185	5185	5185	5185	
5°	5101	5050	5083	5094	5112	475
15°	4314	4298	4414	4534	4612	1205
25°	3297	3306	3476	3628	3788	1516
35°	2330	2341	2498	2666	2855	1448
45°	1397	1424	1518	1632	1781	1089
55°	803	836	885	919	994	728
65°	403	436	476	416	378	419
75°	202	202	184	126	86	216
85°	57	57	52	34	20	62
90°	3	9	23	12	12	5
95°	29	114	379	195	133	32
105°	104	158	640	971	906	110
115°	185	225	512	1022	1167	183
125°	258	289	466	788	929	229
135°	307	338	452	636	721	237
145°	356	379	446	542	585	223
155°	402	414	446	490	504	185
165°	434	440	446	463	469	123
175°	452	452	449	454	454	43
180°	452	452	452	452	452	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5185.0	5185.0	5185.0	5185.0	5185.0
2.5°	5197.7	5151.5	5163.2	5162.8	5148.6
5°	5100.8	5049.7	5082.6	5094.4	5112.2
7.5°	4911.5	4872.8	4932.9	4977.4	5013.5
10°	4764.1	4730.7	4807.3	4872.1	4918.8
12.5°	4593.0	4565.0	4659.9	4746.8	4807.8
15°	4313.6	4298.1	4413.7	4533.8	4611.7
17.5°	4014.7	4007.1	4139.8	4279.9	4379.6
20°	3810.8	3808.6	3954.2	4100.1	4215.8
22.5°	3605.2	3610.1	3763.0	3914.8	4046.5
25°	3296.7	3305.5	3476.4	3627.9	3788.1
27.5°	3011.3	3015.4	3192.0	3352.0	3522.8
30°	2816.6	2827.7	3000.9	3166.5	3344.4
32.5°	2621.8	2634.8	2804.3	2975.4	3157.0
35°	2329.7	2340.8	2498.1	2666.2	2855.3
37.5°	2028.5	2043.6	2183.2	2342.1	2528.1
40°	1833.7	1856.0	1979.4	2129.1	2311.5
42.5°	1646.3	1673.9	1788.2	1930.3	2094.9
45°	1396.9	1423.6	1517.5	1632.4	1781.4
47.5°	1182.2	1212.9	1285.0	1383.9	1511.1
50°	1060.2	1089.1	1155.8	1229.0	1349.1
52.5°	952.8	981.7	1041.1	1097.6	1199.9
55°	803.1	836.5	885.0	918.6	994.2
57.5°	680.3	712.3	750.8	765.9	811.8
60°	598.4	633.9	668.9	667.2	691.6
62.5°	523.7	554.0	588.8	564.7	566.1
65°	402.7	436.1	475.5	415.5	377.7
67.5°	325.3	332.5	373.1	289.7	244.8
70°	288.9	288.9	300.3	224.4	186.6
72.5°	254.4	254.4	243.9	182.5	142.9
75°	202.5	202.5	184.3	126.5	86.5
77.5°	156.1	154.3	141.1	94.4	62.8
80°	125.1	125.1	113.8	74.5	50.1
82.5°	97.8	97.8	88.3	58.2	37.3
85°	56.9	56.9	52.3	33.8	20.5
87.5°	20.6	21.7	22.8	13.2	11.4
90°	2.9	8.6	23.2	11.6	11.6
92.5°	12.2	58.6	129.7	57.4	37.1
95°	28.9	113.9	379.2	195.4	133.2
97.5°	50.4	125.1	567.4	451.2	332.3
100°	66.6	134.5	625.3	633.6	492.1
102.5°	80.5	143.9	641.5	789.2	668.1
105°	104.2	158.0	639.7	971.1	906.0
107.5°	128.5	178.3	603.3	1065.6	1081.5
110°	144.7	190.0	573.2	1090.0	1157.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	160.9	204.0	545.4	1074.6	1178.7
115°	185.3	224.9	512.4	1022.2	1166.6
117.5°	209.0	245.2	489.8	949.6	1109.8
120°	222.9	256.9	480.5	900.9	1056.6
122.5°	236.8	270.8	473.6	852.2	1005.6
125°	257.6	288.8	466.0	787.7	929.2
127.5°	274.4	306.1	459.7	735.7	855.1
130°	283.7	317.6	457.4	703.0	813.4
132.5°	292.9	326.9	455.0	675.0	774.0
135°	306.8	338.0	451.6	635.9	720.8
137.5°	321.3	351.9	451.0	606.6	676.2
140°	332.9	361.2	448.7	583.3	648.4
142.5°	342.2	368.2	448.7	566.9	622.9
145°	356.0	378.7	445.8	542.3	584.7
147.5°	369.9	392.0	445.8	521.8	556.9
150°	379.2	399.0	445.8	510.1	538.4
152.5°	388.5	403.8	445.8	500.7	522.2
155°	402.4	413.7	445.8	489.5	503.7
157.5°	412.8	423.5	445.8	479.6	489.8
160°	419.7	428.2	445.8	474.9	480.5
162.5°	426.7	432.9	445.8	470.2	475.9
165°	434.2	439.9	445.8	463.3	468.9
167.5°	441.2	444.0	448.7	460.3	462.6
170°	445.8	448.6	448.7	460.3	460.3
172.5°	448.1	448.7	448.7	457.9	455.6
175°	451.6	451.6	448.7	454.5	454.5
177.5°	451.6	451.6	449.3	453.8	451.6
180°	451.6	451.6	451.6	451.6	451.6

(END OF REPORT)