

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: P519041

Luminaire Tested: **SQ4-WB-025U-100D-940-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519041
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-100D-940-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

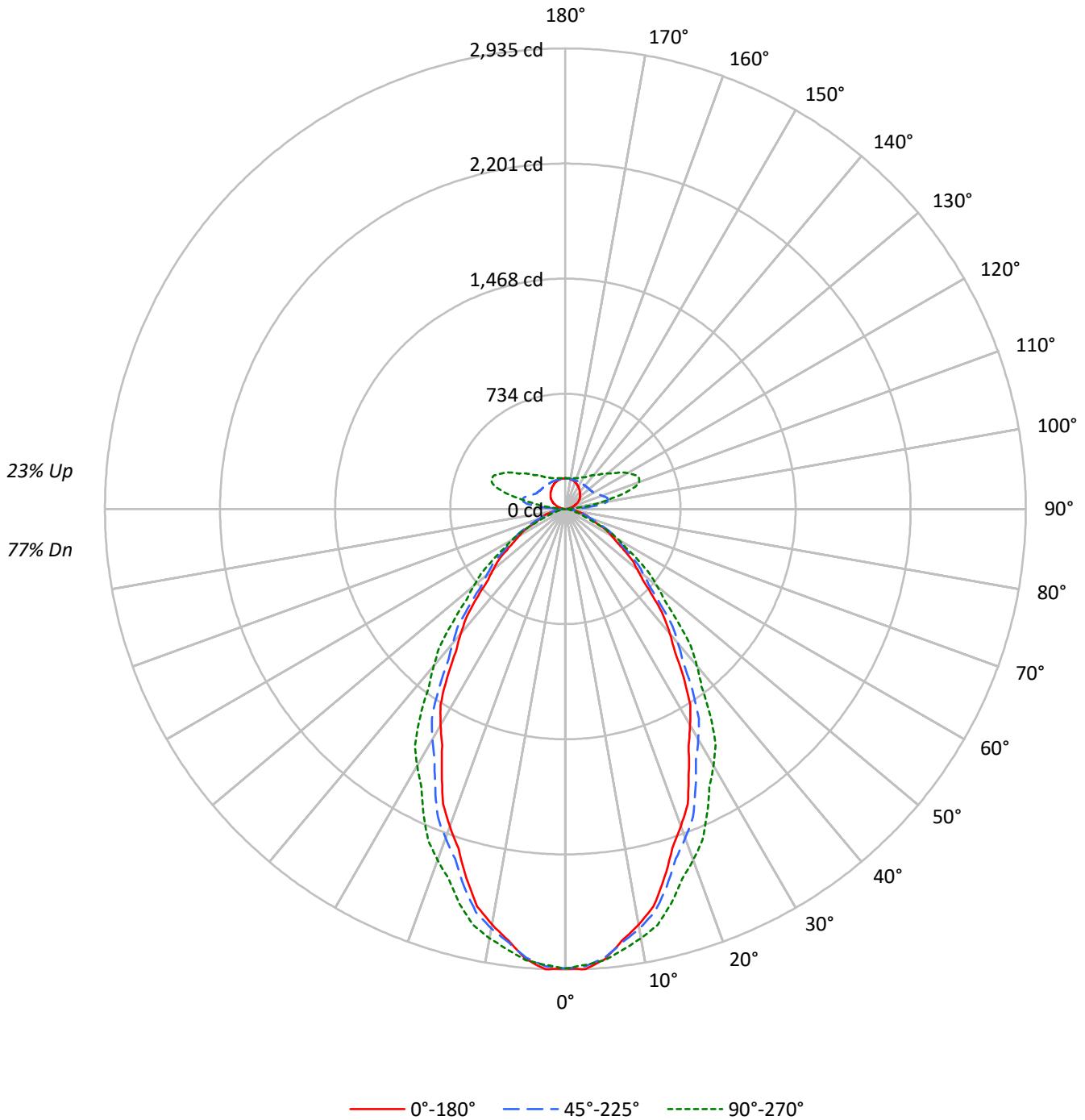
Lumens per Lamp: N/A
Luminaire Lumens: 5532.9 lumens
Efficiency: N/A
Efficacy: 87.1 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 63.5
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	114	114	114	114	108	108	108	108	98	98	98	89	89	89	81	81	81	77				
1	106	102	98	95	101	97	94	92	89	87	85	81	80	78	74	73	72	68				
2	98	91	86	81	93	87	82	78	80	76	73	74	71	68	68	65	63	60				
3	90	82	75	70	86	79	73	68	73	68	64	67	63	60	62	59	56	53				
4	84	74	67	61	80	71	65	59	66	60	56	61	57	53	57	53	50	48				
5	78	67	59	54	74	65	58	53	60	54	50	56	51	48	52	48	45	43				
6	72	61	54	48	69	59	52	47	55	49	45	51	47	43	48	44	41	38				
7	68	56	49	43	65	54	47	42	51	45	41	47	43	39	44	40	37	35				
8	63	52	44	39	61	50	43	38	47	41	37	44	39	35	41	37	34	32				
9	60	48	41	36	57	46	40	35	44	38	34	41	36	32	39	34	31	29				
10	56	44	37	33	54	43	37	32	41	35	31	38	33	30	36	32	29	27				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18010	18010	18010
5°	17785	17721	17825
10°	16803	16956	17349
15°	15512	15872	16584
20°	14086	14616	15583
25°	12635	13324	14518
30°	11297	12036	13414
35°	9879	10593	12107
40°	8314	8975	10481
45°	6862	7455	8751
50°	5729	6246	7291
55°	4863	5360	6021
60°	4157	4646	4805
65°	3310	3908	3104
70°	2935	3050	1895
75°	2716	2474	1160
80°	2504	2274	1002
85°	2265	2089	819



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	268.6	4.9
10°-20°	698.6	12.6
20°-30°	904.9	16.4
30°-40°	886.1	16.0
40°-50°	678.2	12.3
50°-60°	451.9	8.2
60°-70°	246.6	4.5
70°-80°	102.8	1.9
80°-90°	30.1	0.5
90°-100°	95.1	1.7
100°-110°	250.1	4.5
110°-120°	259.3	4.7
120°-130°	208.0	3.8
130°-140°	163.2	2.9
140°-150°	125.3	2.3
150°-160°	90.2	1.6
160°-170°	55.2	1.0
170°-180°	18.6	0.3
0°-30°	1872.0	33.8
0°-40°	2758.1	49.8
0°-60°	3888.2	70.3
0°-90°	4267.8	77.1
90°-120°	604.6	10.9
90°-150°	1101.1	19.9
90°-180°	1265.0	22.9
0°-180°	5532.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2928	2928	2928	2928	2928	
5°	2880	2852	2870	2877	2887	268
15°	2436	2427	2492	2560	2604	680
25°	1862	1867	1963	2049	2139	856
35°	1316	1322	1411	1506	1612	818
45°	789	804	857	922	1006	615
55°	454	472	500	519	562	411
65°	227	246	268	235	213	236
75°	114	114	104	71	49	122
85°	32	32	30	19	12	35
90°	1	4	10	5	5	3
95°	12	49	164	84	58	14
105°	45	68	276	420	392	48
115°	80	97	222	442	504	79
125°	111	125	201	340	402	99
135°	133	146	195	275	312	103
145°	154	164	193	234	253	96
155°	174	179	193	212	218	80
165°	188	190	193	200	203	53
175°	195	195	194	196	196	19
180°	195	195	195	195	195	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2928.1	2928.1	2928.1	2928.1	2928.1
2.5°	2935.3	2909.1	2915.7	2915.5	2907.5
5°	2880.5	2851.6	2870.2	2876.9	2886.9
7.5°	2773.6	2751.8	2785.7	2810.8	2831.2
10°	2690.4	2671.5	2714.8	2751.4	2777.7
12.5°	2593.8	2577.9	2631.5	2680.6	2715.0
15°	2436.0	2427.2	2492.5	2560.3	2604.3
17.5°	2267.2	2262.9	2337.8	2417.0	2473.2
20°	2152.0	2150.8	2233.0	2315.4	2380.7
22.5°	2035.9	2038.7	2125.1	2210.8	2285.1
25°	1861.7	1866.7	1963.2	2048.7	2139.2
27.5°	1700.6	1702.8	1802.6	1892.9	1989.4
30°	1590.6	1596.9	1694.7	1788.2	1888.7
32.5°	1480.6	1487.9	1583.6	1680.3	1782.8
35°	1315.6	1321.9	1410.7	1505.6	1612.4
37.5°	1145.5	1154.1	1232.9	1322.6	1427.7
40°	1035.5	1048.1	1117.8	1202.3	1305.4
42.5°	929.7	945.3	1009.9	1090.1	1183.0
45°	788.9	803.9	857.0	921.8	1006.0
47.5°	667.6	684.9	725.7	781.5	853.4
50°	598.7	615.0	652.7	694.0	761.9
52.5°	538.1	554.4	587.9	619.8	677.6
55°	453.5	472.4	499.8	518.7	561.5
57.5°	384.2	402.2	424.0	432.5	458.4
60°	337.9	358.0	377.7	376.8	390.6
62.5°	295.8	312.8	332.5	318.9	319.7
65°	227.4	246.3	268.5	234.6	213.3
67.5°	183.7	187.7	210.7	163.6	138.2
70°	163.2	163.2	169.6	126.7	105.4
72.5°	143.6	143.6	137.7	103.0	80.7
75°	114.3	114.3	104.1	71.4	48.8
77.5°	88.1	87.1	79.7	53.3	35.5
80°	70.7	70.7	64.2	42.1	28.3
82.5°	55.2	55.2	49.9	32.9	21.1
85°	32.1	32.1	29.6	19.1	11.6
87.5°	11.6	12.0	12.3	7.1	6.1
90°	1.3	3.7	10.0	5.0	5.0
92.5°	5.3	25.3	56.1	24.8	16.0
95°	12.5	49.2	163.9	84.5	57.6
97.5°	21.8	54.1	245.2	195.0	143.6
100°	28.8	58.1	270.3	273.9	212.7
102.5°	34.8	62.2	277.3	341.1	288.8
105°	45.0	68.3	276.5	419.8	391.6
107.5°	55.6	77.1	260.8	460.6	467.5
110°	62.6	82.1	247.7	471.1	500.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	69.6	88.2	235.7	464.5	509.5
115°	80.1	97.2	221.5	441.8	504.2
117.5°	90.3	106.0	211.7	410.5	479.7
120°	96.3	111.0	207.7	389.4	456.7
122.5°	102.3	117.0	204.7	368.4	434.7
125°	111.4	124.8	201.4	340.5	401.6
127.5°	118.6	132.3	198.7	318.0	369.6
130°	122.6	137.3	197.7	303.9	351.6
132.5°	126.6	141.3	196.7	291.8	334.6
135°	132.6	146.1	195.2	274.8	311.6
137.5°	138.9	152.1	194.9	262.2	292.3
140°	143.9	156.1	193.9	252.1	280.3
142.5°	147.9	159.1	193.9	245.0	269.3
145°	153.9	163.7	192.7	234.4	252.7
147.5°	159.9	169.4	192.7	225.6	240.7
150°	163.9	172.5	192.7	220.5	232.7
152.5°	167.9	174.5	192.7	216.4	225.7
155°	173.9	178.8	192.7	211.6	217.7
157.5°	178.4	183.1	192.7	207.3	211.7
160°	181.4	185.1	192.7	205.3	207.7
162.5°	184.4	187.1	192.7	203.3	205.7
165°	187.7	190.1	192.7	200.2	202.7
167.5°	190.7	191.9	193.9	199.0	199.9
170°	192.7	193.9	193.9	198.9	198.9
172.5°	193.7	193.9	193.9	197.9	196.9
175°	195.2	195.2	193.9	196.4	196.4
177.5°	195.2	195.2	194.2	196.2	195.2
180°	195.2	195.2	195.2	195.2	195.2

(END OF REPORT)