

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: P519448

Luminaire Tested: **SQ4-WB-100U-125D-940-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519448
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, 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-100U-125D-940-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

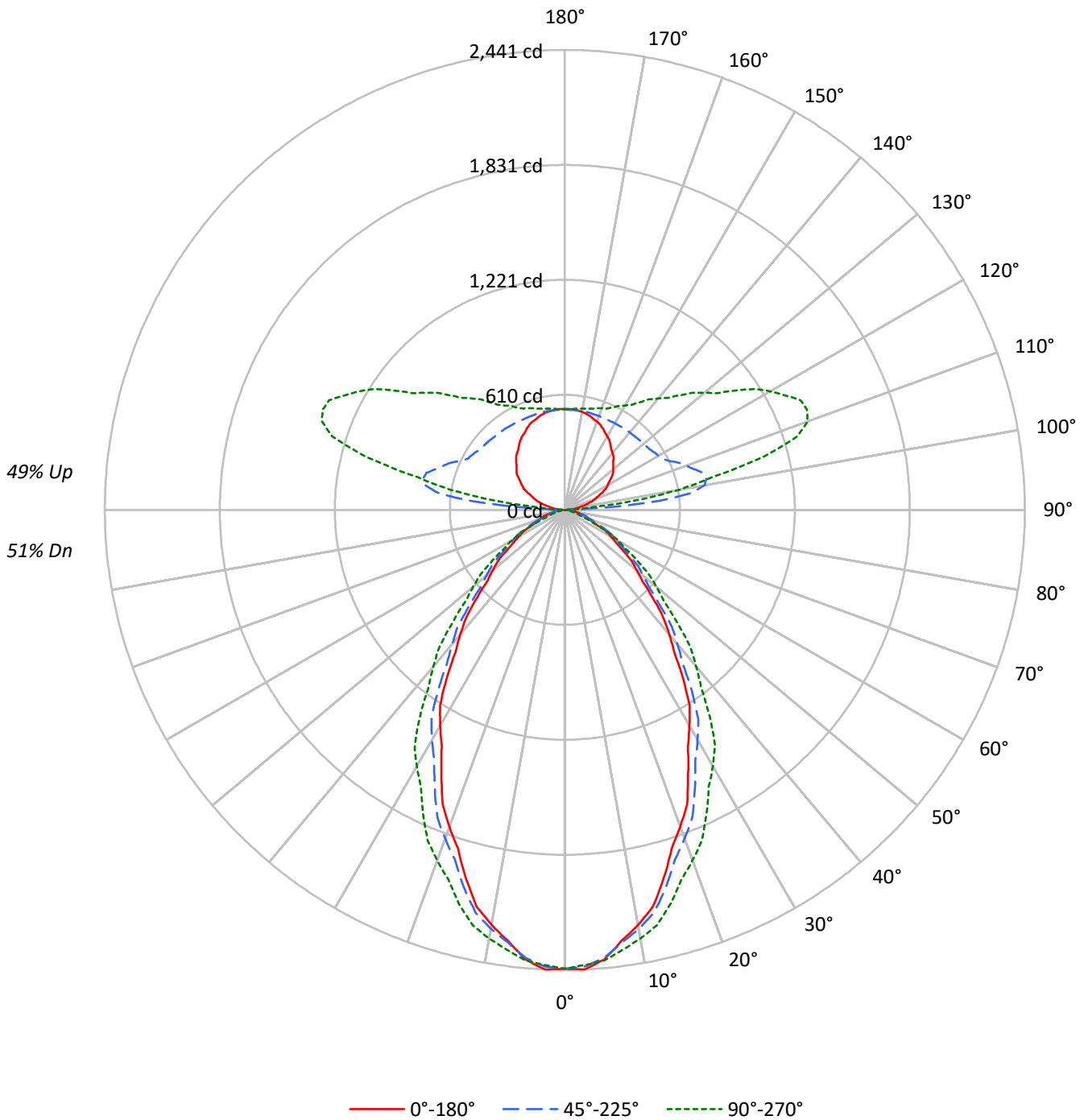
Lumens per Lamp: N/A
Luminaire Lumens: 7021.8 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 68.7
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				
RC	80					70					50					30				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																				
0	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57	51		
1	99	95	92	89	91	88	85	83	75	73	71	63	62	60	52	51	50	45		
2	91	84	79	74	84	78	74	70	67	64	61	57	54	52	47	45	44	40		
3	84	75	69	63	78	70	64	60	60	56	53	51	48	46	43	41	39	35		
4	77	68	60	55	72	63	57	52	54	50	46	47	43	40	39	37	35	31		
5	72	61	53	48	66	57	50	45	49	44	40	42	39	36	36	33	31	28		
6	66	55	48	42	61	52	45	40	45	40	36	39	35	32	33	30	28	25		
7	62	50	43	38	57	47	41	36	41	36	32	36	32	29	31	28	25	23		
8	58	46	39	34	53	43	37	32	38	33	29	33	29	26	28	25	23	21		
9	54	42	35	30	50	40	33	29	35	30	27	31	27	24	27	24	21	19		
10	50	39	32	28	47	37	31	27	33	28	24	29	25	22	25	22	20	18		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	22469	22469	22469
5°	22188	22109	22238
10°	20963	21153	21644
15°	19352	19801	20689
20°	17574	18235	19441
25°	15763	16622	18112
30°	14094	15016	16735
35°	12324	13215	15105
40°	10373	11197	13076
45°	8561	9299	10917
50°	7148	7791	9096
55°	6067	6687	7512
60°	5185	5798	5993
65°	4128	4875	3873
70°	3661	3806	2363
75°	3390	3087	1447
80°	3124	2837	1249
85°	2826	2604	1016



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.4	3.2
10°-20°	581.0	8.3
20°-30°	752.6	10.7
30°-40°	737.0	10.5
40°-50°	564.1	8.0
50°-60°	375.9	5.4
60°-70°	205.1	2.9
70°-80°	85.5	1.2
80°-90°	25.3	0.4
90°-100°	250.2	3.6
100°-110°	690.9	9.8
110°-120°	712.5	10.1
120°-130°	572.6	8.2
130°-140°	450.0	6.4
140°-150°	345.1	4.9
150°-160°	248.0	3.5
160°-170°	151.7	2.2
170°-180°	51.1	0.7
0°-30°	1556.9	22.2
0°-40°	2293.9	32.7
0°-60°	3233.9	46.1
0°-90°	3549.7	50.6
90°-120°	1653.6	23.5
90°-150°	3021.2	43.0
90°-180°	3472.0	49.4
0°-180°	7021.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2435	2435	2435	2435	2435	
5°	2396	2372	2387	2393	2401	223
15°	2026	2019	2073	2129	2166	566
25°	1548	1552	1633	1704	1779	712
35°	1094	1099	1173	1252	1341	680
45°	656	669	713	767	837	512
55°	377	393	416	431	467	342
65°	189	205	223	195	177	197
75°	95	95	87	59	41	102
85°	27	27	25	16	10	29
90°	2	3	7	8	8	4
95°	37	135	454	187	121	39
105°	123	190	760	1160	1093	131
115°	221	267	612	1212	1378	217
125°	303	344	555	939	1102	269
135°	364	404	540	761	858	282
145°	422	452	533	648	697	264
155°	476	492	528	581	599	219
165°	516	522	531	552	556	145
175°	534	535	532	540	538	51
180°	534	534	534	534	534	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2435.3	2435.3	2435.3	2435.3	2435.3
2.5°	2441.3	2419.5	2425.0	2424.9	2418.2
5°	2395.7	2371.7	2387.2	2392.7	2401.1
7.5°	2306.8	2288.7	2316.9	2337.8	2354.7
10°	2237.6	2221.9	2257.9	2288.3	2310.3
12.5°	2157.2	2144.1	2188.7	2229.5	2258.1
15°	2026.0	2018.7	2073.0	2129.4	2166.0
17.5°	1885.6	1882.1	1944.4	2010.2	2057.0
20°	1789.9	1788.8	1857.2	1925.7	1980.1
22.5°	1693.3	1695.6	1767.4	1838.7	1900.6
25°	1548.4	1552.5	1632.8	1703.9	1779.2
27.5°	1414.4	1416.2	1499.2	1574.3	1654.6
30°	1322.9	1328.1	1409.5	1487.2	1570.8
32.5°	1231.4	1237.5	1317.1	1397.5	1482.8
35°	1094.2	1099.4	1173.3	1252.3	1341.1
37.5°	952.7	959.8	1025.4	1100.1	1187.4
40°	861.3	871.7	929.7	1000.0	1085.7
42.5°	773.2	786.2	839.9	906.6	983.9
45°	656.1	668.6	712.7	766.7	836.7
47.5°	555.2	569.7	603.5	650.0	709.7
50°	498.0	511.5	542.8	577.2	633.7
52.5°	447.5	461.1	489.0	515.5	563.6
55°	377.2	392.9	415.7	431.4	467.0
57.5°	319.5	334.5	352.6	359.7	381.3
60°	281.0	297.8	314.2	313.4	324.8
62.5°	246.0	260.2	276.5	265.2	265.9
65°	189.1	204.8	223.3	195.1	177.4
67.5°	152.8	156.1	175.2	136.1	115.0
70°	135.7	135.7	141.1	105.4	87.6
72.5°	119.5	119.5	114.6	85.7	67.1
75°	95.1	95.1	86.6	59.4	40.6
77.5°	73.3	72.5	66.3	44.3	29.5
80°	58.8	58.8	53.4	35.0	23.5
82.5°	45.9	45.9	41.5	27.3	17.5
85°	26.7	26.7	24.6	15.9	9.6
87.5°	9.7	10.1	9.9	6.7	6.0
90°	1.7	3.4	6.8	7.7	8.5
92.5°	15.4	63.9	114.2	41.7	32.5
95°	36.8	135.4	454.0	186.6	121.4
97.5°	60.9	151.7	672.5	517.8	375.0
100°	78.7	161.4	753.2	758.6	616.4
102.5°	95.8	172.5	769.0	937.3	802.5
105°	123.1	190.0	760.1	1160.4	1092.7
107.5°	152.2	211.7	717.7	1268.0	1292.7
110°	172.7	226.2	684.8	1291.1	1371.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	191.2	242.7	654.1	1272.9	1391.2
115°	220.6	266.6	612.2	1211.9	1378.2
117.5°	246.2	292.0	584.6	1126.0	1315.3
120°	263.3	308.5	573.7	1067.9	1258.5
122.5°	279.8	322.9	564.8	1013.7	1194.2
125°	302.7	344.5	554.9	939.1	1102.1
127.5°	322.2	364.0	549.1	876.0	1016.6
130°	335.2	377.0	546.3	837.4	965.3
132.5°	347.5	387.3	543.6	805.0	920.8
135°	364.2	403.5	539.5	760.6	857.6
137.5°	383.0	418.8	537.4	723.3	806.1
140°	393.3	428.4	536.1	698.5	771.2
142.5°	404.9	437.4	534.7	676.4	740.4
145°	422.4	451.6	532.7	647.5	696.8
147.5°	439.1	464.7	530.8	623.1	661.4
150°	451.4	472.3	530.1	608.6	639.5
152.5°	461.0	480.6	529.4	596.2	621.7
155°	476.2	492.1	528.4	581.0	599.3
157.5°	490.2	502.5	528.6	569.9	582.4
160°	498.5	509.3	529.2	563.6	572.8
162.5°	505.3	514.8	529.9	558.1	565.3
165°	515.6	522.2	530.9	551.6	555.7
167.5°	523.4	527.4	531.8	547.6	548.9
170°	527.5	530.9	531.8	545.5	545.5
172.5°	530.9	533.0	531.8	542.7	542.1
175°	534.4	535.2	531.8	539.5	537.8
177.5°	535.7	535.1	531.6	536.4	535.0
180°	534.4	534.4	534.4	534.4	534.4

(END OF REPORT)