

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: P519160

Luminaire Tested: **SQ4-WB-050U-125D-940-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519160
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-940-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

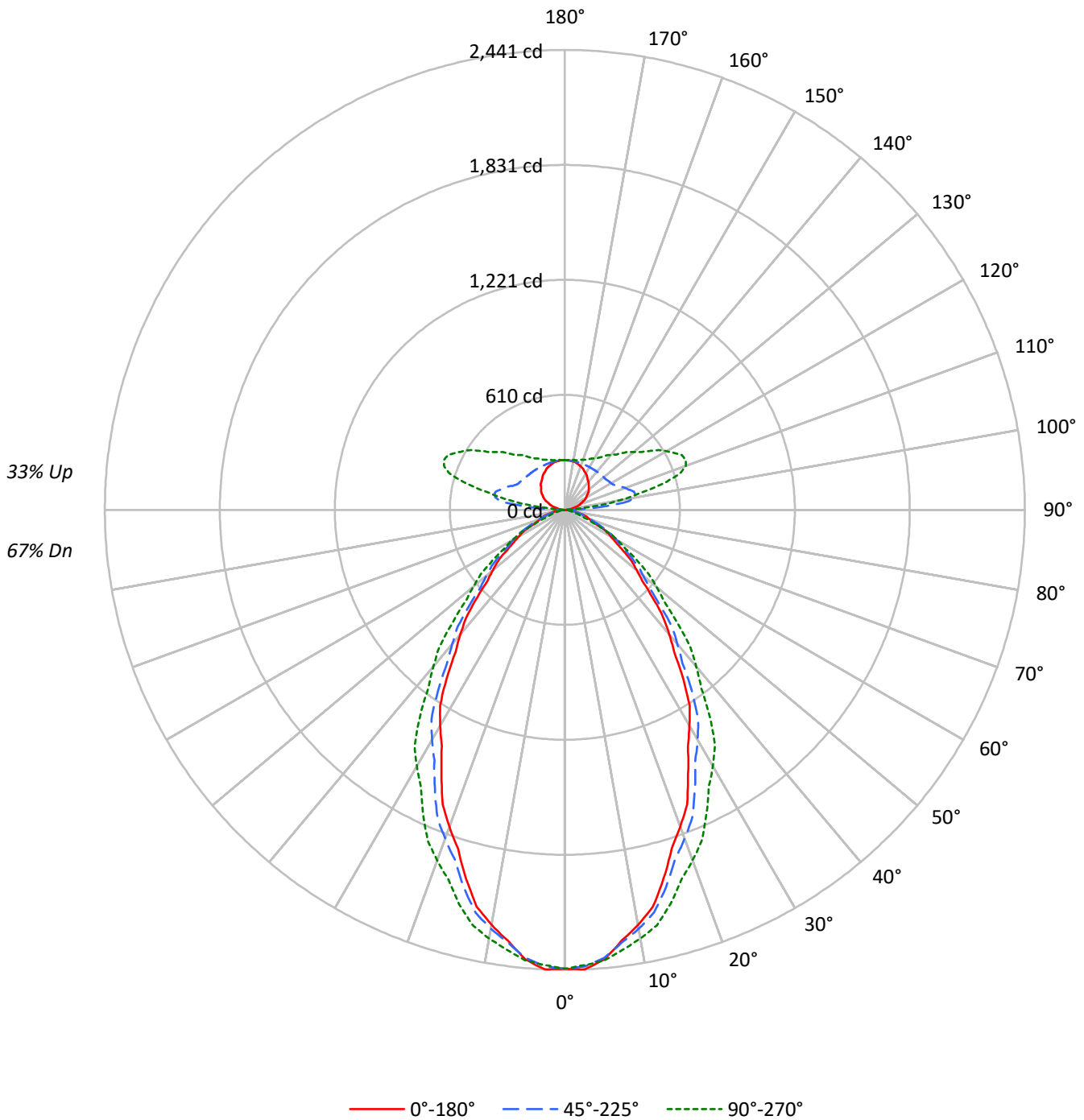
Lumens per Lamp: N/A
Luminaire Lumens: 5271.6 lumens
Efficiency: N/A
Efficacy: 94.3 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 55.9
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°	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	4.2
10°-20°	581.0	11.0
20°-30°	752.6	14.3
30°-40°	737.0	14.0
40°-50°	564.1	10.7
50°-60°	375.9	7.1
60°-70°	205.1	3.9
70°-80°	85.5	1.6
80°-90°	25.2	0.5
90°-100°	126.6	2.4
100°-110°	343.9	6.5
110°-120°	353.6	6.7
120°-130°	282.7	5.4
130°-140°	222.2	4.2
140°-150°	170.3	3.2
150°-160°	122.5	2.3
160°-170°	74.9	1.4
170°-180°	25.2	0.5
0°-30°	1556.9	29.5
0°-40°	2293.9	43.5
0°-60°	3233.9	61.3
0°-90°	3549.6	67.3
90°-120°	824.1	15.6
90°-150°	1499.3	28.4
90°-180°	1722.0	32.7
0°-180°	5271.6	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°	1	3	6	8	8	3
95°	19	69	220	96	64	20
105°	61	95	378	576	542	65
115°	108	132	303	602	686	107
125°	149	170	274	462	544	133
135°	180	200	266	376	424	139
145°	208	223	263	319	343	130
155°	235	243	261	287	295	108
165°	254	258	262	273	274	72
175°	264	265	263	266	265	25
180°	264	264	264	264	264	

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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°	9.6	10.1	9.7	6.6	5.8
90°	0.8	3.3	5.9	7.6	7.6
92.5°	7.6	34.7	60.2	25.9	21.9
95°	18.7	69.2	220.5	96.0	64.4
97.5°	30.9	76.5	338.0	263.0	184.7
100°	39.0	81.3	374.0	379.1	306.1
102.5°	47.1	86.1	383.5	468.8	404.5
105°	61.1	95.1	378.2	575.9	541.9
107.5°	75.5	105.5	356.3	631.1	640.6
110°	85.6	113.0	340.1	642.0	682.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	94.5	120.5	323.8	633.0	694.2
115°	108.5	131.8	302.7	602.3	686.0
117.5°	121.8	144.0	289.3	558.8	653.1
120°	130.6	152.2	283.2	529.6	623.3
122.5°	138.1	159.6	279.2	500.3	590.7
125°	149.2	170.0	273.9	461.5	544.4
127.5°	159.3	179.8	271.0	432.1	503.2
130°	165.4	185.3	269.7	413.6	477.4
132.5°	171.5	191.4	268.3	397.8	454.4
135°	179.8	199.7	266.3	375.9	424.0
137.5°	188.8	206.8	265.3	356.6	397.0
140°	194.2	211.6	264.6	344.3	380.8
142.5°	199.6	215.7	263.9	334.6	365.2
145°	207.8	222.7	262.9	319.4	343.4
147.5°	216.9	229.7	262.0	307.4	326.3
150°	223.0	233.8	262.0	300.5	315.5
152.5°	227.8	237.2	261.4	294.4	306.6
155°	234.9	243.2	261.2	286.8	295.1
157.5°	241.9	248.3	261.2	281.7	288.0
160°	245.9	251.7	261.2	278.3	283.2
162.5°	250.0	254.5	261.9	275.5	279.2
165°	254.4	257.7	262.0	273.1	273.9
167.5°	259.0	260.6	262.9	270.2	270.9
170°	260.3	262.0	262.9	268.8	268.8
172.5°	261.7	262.7	262.9	267.5	267.5
175°	263.7	264.6	262.9	266.3	265.4
177.5°	264.4	264.4	262.4	265.1	263.7
180°	263.7	263.7	263.7	263.7	263.7

(END OF REPORT)