

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: P519440

Luminaire Tested: **SQ4-WB-100U-125D-930-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519440
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-930-1D-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: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

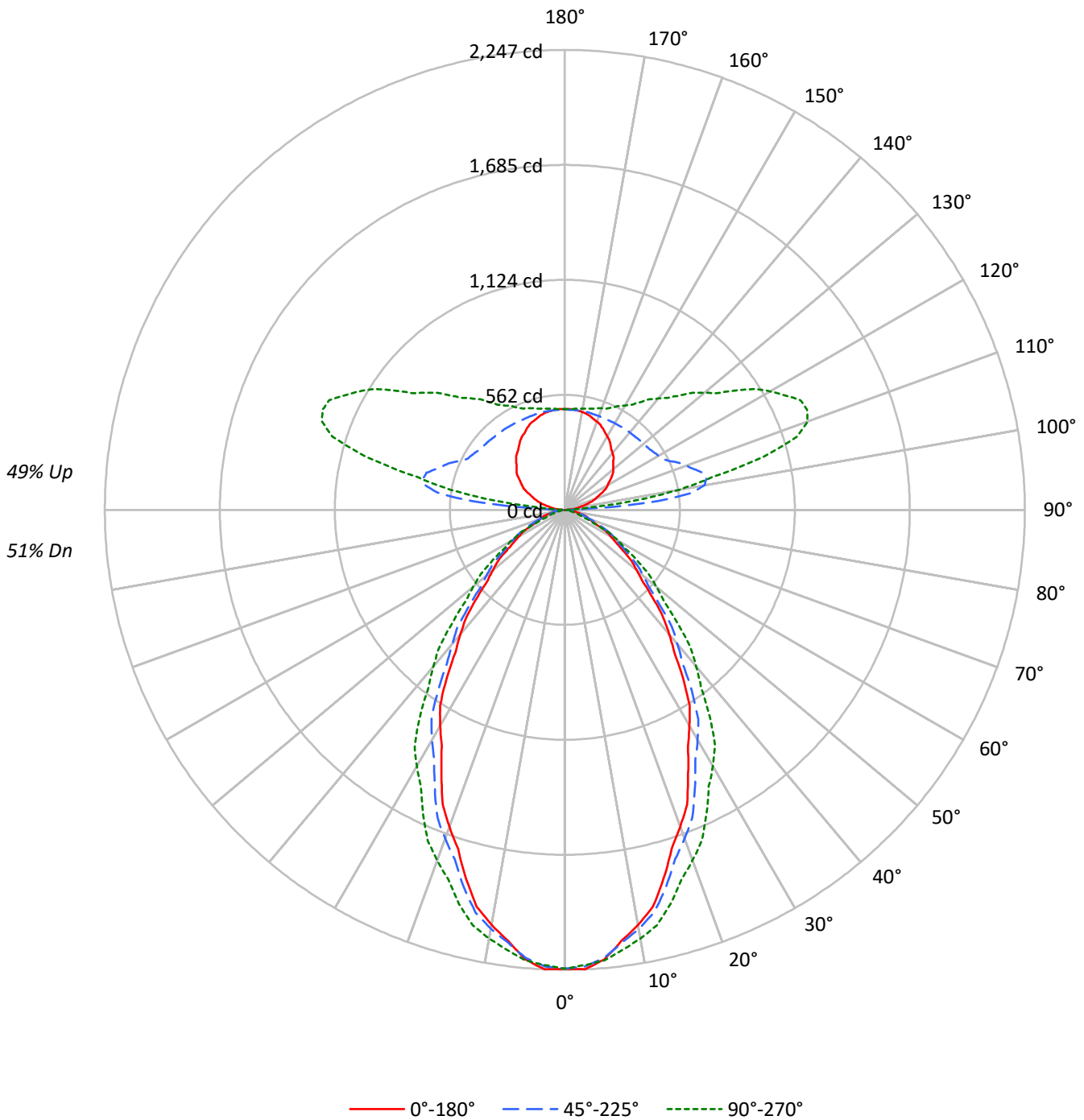
Lumens per Lamp: N/A
Luminaire Lumens: 6463.5 lumens
Efficiency: N/A
Efficacy: 94.1 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	20682	20682	20682
5°	20424	20351	20470
10°	19296	19472	19923
15°	17814	18226	19044
20°	16177	16784	17896
25°	14510	15301	16672
30°	12973	13822	15404
35°	11344	12164	13903
40°	9548	10307	12037
45°	7880	8561	10049
50°	6580	7172	8372
55°	5585	6154	6914
60°	4774	5336	5517
65°	3801	4488	3565
70°	3369	3501	2177
75°	3119	2841	1333
80°	2874	2614	1148
85°	2604	2392	942



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.6	3.2
10°-20°	534.8	8.3
20°-30°	692.7	10.7
30°-40°	678.4	10.5
40°-50°	519.3	8.0
50°-60°	346.0	5.4
60°-70°	188.8	2.9
70°-80°	78.7	1.2
80°-90°	23.3	0.4
90°-100°	230.4	3.6
100°-110°	635.9	9.8
110°-120°	655.9	10.1
120°-130°	527.0	8.2
130°-140°	414.2	6.4
140°-150°	317.7	4.9
150°-160°	228.3	3.5
160°-170°	139.6	2.2
170°-180°	47.1	0.7
0°-30°	1433.2	22.2
0°-40°	2111.5	32.7
0°-60°	2976.8	46.1
0°-90°	3267.5	50.6
90°-120°	1522.1	23.5
90°-150°	2781.0	43.0
90°-180°	3196.0	49.4
0°-180°	6463.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2242	2242	2242	2242	2242	
5°	2205	2183	2197	2202	2210	205
15°	1865	1858	1908	1960	1994	521
25°	1425	1429	1503	1568	1638	655
35°	1007	1012	1080	1153	1234	626
45°	604	616	656	706	770	471
55°	347	362	383	397	430	315
65°	174	188	206	180	163	181
75°	88	88	80	55	37	93
85°	25	25	23	15	9	27
90°	2	3	6	7	8	4
95°	34	125	418	172	112	36
105°	113	175	700	1068	1006	121
115°	203	245	564	1116	1269	200
125°	279	317	511	864	1014	248
135°	335	371	497	700	789	259
145°	389	416	490	596	641	243
155°	438	453	486	535	552	202
165°	475	481	489	508	512	134
175°	492	493	490	497	495	47
180°	492	492	492	492	492	



TEST NUMBER: P519440

CATALOG NUMBER: SQ4-WB-100U-125D-930-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2241.7	2241.7	2241.7	2241.7	2241.7
2.5°	2247.2	2227.2	2232.2	2232.1	2225.9
5°	2205.3	2183.2	2197.4	2202.5	2210.2
7.5°	2123.4	2106.7	2132.7	2151.9	2167.5
10°	2059.7	2045.3	2078.4	2106.4	2126.6
12.5°	1985.7	1973.6	2014.7	2052.2	2078.6
15°	1865.0	1858.2	1908.2	1960.1	1993.8
17.5°	1735.7	1732.4	1789.8	1850.4	1893.5
20°	1647.6	1646.6	1709.5	1772.6	1822.7
22.5°	1558.7	1560.8	1626.9	1692.5	1749.5
25°	1425.3	1429.1	1503.0	1568.5	1637.7
27.5°	1301.9	1303.7	1380.0	1449.2	1523.0
30°	1217.7	1222.5	1297.4	1369.0	1445.9
32.5°	1133.5	1139.1	1212.4	1286.4	1364.9
35°	1007.2	1012.0	1080.0	1152.7	1234.4
37.5°	877.0	883.5	943.9	1012.6	1093.0
40°	792.8	802.4	855.8	920.5	999.4
42.5°	711.8	723.7	773.1	834.6	905.7
45°	603.9	615.5	656.1	705.7	770.2
47.5°	511.1	524.4	555.6	598.3	653.3
50°	458.4	470.9	499.7	531.4	583.3
52.5°	411.9	424.4	450.1	474.5	518.8
55°	347.2	361.6	382.6	397.1	429.8
57.5°	294.1	308.0	324.6	331.1	351.0
60°	258.7	274.1	289.2	288.4	299.0
62.5°	226.4	239.5	254.6	244.1	244.7
65°	174.1	188.5	205.6	179.6	163.3
67.5°	140.7	143.7	161.3	125.3	105.8
70°	124.9	124.9	129.8	97.0	80.7
72.5°	110.0	110.0	105.4	78.9	61.8
75°	87.5	87.5	79.7	54.7	37.4
77.5°	67.5	66.7	61.0	40.8	27.1
80°	54.1	54.1	49.2	32.2	21.6
82.5°	42.3	42.3	38.2	25.2	16.1
85°	24.6	24.6	22.6	14.6	8.9
87.5°	9.0	9.3	9.1	6.1	5.5
90°	1.6	3.1	6.3	7.1	7.9
92.5°	14.2	58.8	105.1	38.4	29.9
95°	33.8	124.6	417.9	171.8	111.8
97.5°	56.0	139.6	619.1	476.6	345.2
100°	72.4	148.6	693.4	698.3	567.4
102.5°	88.1	158.8	707.8	862.7	738.7
105°	113.3	174.9	699.7	1068.1	1005.8
107.5°	140.1	194.9	660.6	1167.2	1190.0
110°	159.0	208.2	630.4	1188.5	1262.4

TEST NUMBER: P519440

CATALOG NUMBER: SQ4-WB-100U-125D-930-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	176.0	223.4	602.1	1171.7	1280.6
115°	203.0	245.4	563.5	1115.5	1268.7
117.5°	226.7	268.8	538.2	1036.5	1210.7
120°	242.4	284.0	528.1	983.0	1158.5
122.5°	257.5	297.2	519.9	933.1	1099.3
125°	278.6	317.1	510.8	864.4	1014.5
127.5°	296.5	335.0	505.4	806.3	935.8
130°	308.5	347.0	502.9	770.8	888.5
132.5°	319.8	356.5	500.4	741.0	847.6
135°	335.3	371.4	496.6	700.1	789.4
137.5°	352.6	385.5	494.7	665.8	742.0
140°	362.0	394.3	493.5	642.9	709.9
142.5°	372.7	402.6	492.2	622.6	681.6
145°	388.8	415.7	490.3	596.0	641.4
147.5°	404.2	427.8	488.6	573.6	608.8
150°	415.5	434.8	487.9	560.2	588.7
152.5°	424.4	442.4	487.3	548.8	572.3
155°	438.4	453.0	486.4	534.8	551.7
157.5°	451.3	462.5	486.5	524.6	536.1
160°	458.8	468.8	487.2	518.8	527.3
162.5°	465.1	473.9	487.8	513.8	520.4
165°	474.6	480.7	488.7	507.7	511.6
167.5°	481.8	485.5	489.5	504.0	505.3
170°	485.6	488.7	489.5	502.1	502.1
172.5°	488.7	490.6	489.5	499.6	499.0
175°	491.9	492.7	489.5	496.6	495.0
177.5°	493.1	492.5	489.4	493.7	492.5
180°	491.9	491.9	491.9	491.9	491.9

(END OF REPORT)