

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: P519152

Luminaire Tested: **SQ4-WB-050U-125D-930-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519152
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-930-1D-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: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

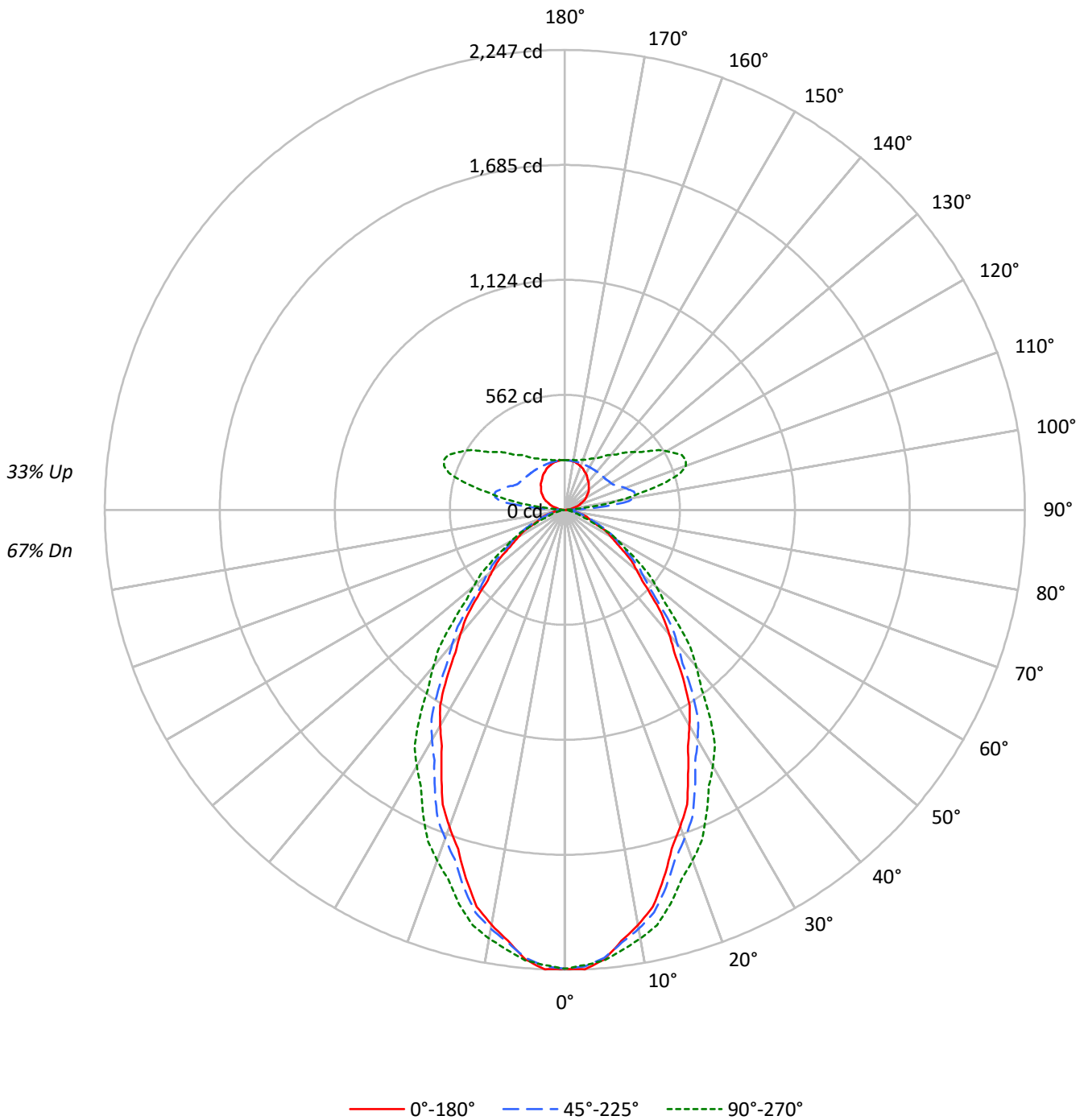
Lumens per Lamp: N/A
Luminaire Lumens: 4852.5 lumens
Efficiency: N/A
Efficacy: 86.8 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

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									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	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°	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	4.2
10°-20°	534.8	11.0
20°-30°	692.7	14.3
30°-40°	678.4	14.0
40°-50°	519.3	10.7
50°-60°	346.0	7.1
60°-70°	188.8	3.9
70°-80°	78.7	1.6
80°-90°	23.2	0.5
90°-100°	116.5	2.4
100°-110°	316.6	6.5
110°-120°	325.5	6.7
120°-130°	260.2	5.4
130°-140°	204.5	4.2
140°-150°	156.8	3.2
150°-160°	112.8	2.3
160°-170°	69.0	1.4
170°-180°	23.2	0.5
0°-30°	1433.2	29.5
0°-40°	2111.5	43.5
0°-60°	2976.8	61.3
0°-90°	3267.5	67.3
90°-120°	758.6	15.6
90°-150°	1380.1	28.4
90°-180°	1585.0	32.7
0°-180°	4852.5	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°	1	3	6	7	7	2
95°	17	64	203	88	59	18
105°	56	88	348	530	499	60
115°	100	121	279	554	632	99
125°	137	156	252	425	501	122
135°	166	184	245	346	390	128
145°	191	205	242	294	316	120
155°	216	224	240	264	272	100
165°	234	237	241	251	252	66
175°	243	244	242	245	244	23
180°	243	243	243	243	243	

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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°	8.8	9.3	9.0	6.1	5.3
90°	0.8	3.1	5.5	7.0	7.0
92.5°	7.0	31.9	55.4	23.8	20.1
95°	17.2	63.7	203.0	88.3	59.3
97.5°	28.4	70.4	311.1	242.1	170.0
100°	35.9	74.8	344.2	349.0	281.8
102.5°	43.4	79.3	353.0	431.6	372.3
105°	56.2	87.5	348.1	530.1	498.8
107.5°	69.5	97.1	328.0	581.0	589.7
110°	78.8	104.0	313.0	591.0	628.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	<i>87.0</i>	110.9	298.0	582.7	639.0
115°	<i>99.9</i>	121.3	278.7	554.4	631.5
117.5°	<i>112.1</i>	132.5	266.3	514.4	601.2
120°	<i>120.2</i>	140.1	260.7	487.5	573.7
122.5°	<i>127.1</i>	146.9	257.0	460.6	543.8
125°	<i>137.4</i>	156.5	252.1	424.8	501.1
127.5°	<i>146.6</i>	165.5	249.5	397.7	463.2
130°	<i>152.2</i>	170.5	248.2	380.7	439.5
132.5°	<i>157.8</i>	176.2	247.0	366.2	418.2
135°	<i>165.5</i>	183.8	245.1	346.0	390.3
137.5°	<i>173.8</i>	190.4	244.2	328.2	365.5
140°	<i>178.8</i>	194.8	243.5	316.9	350.5
142.5°	<i>183.8</i>	198.6	242.9	308.0	336.1
145°	<i>191.2</i>	205.0	242.0	294.0	316.1
147.5°	<i>199.7</i>	211.4	241.2	283.0	300.4
150°	<i>205.3</i>	215.2	241.2	276.6	290.4
152.5°	<i>209.7</i>	218.4	240.6	271.0	282.3
155°	<i>216.2</i>	223.9	240.4	264.0	271.6
157.5°	<i>222.6</i>	228.6	240.4	259.3	265.1
160°	<i>226.4</i>	231.7	240.4	256.1	260.7
162.5°	<i>230.1</i>	234.2	241.0	253.6	257.0
165°	<i>234.2</i>	237.2	241.2	251.4	252.1
167.5°	<i>238.4</i>	239.9	242.0	248.7	249.3
170°	<i>239.6</i>	241.2	242.0	247.4	247.4
172.5°	<i>240.9</i>	241.8	242.0	246.2	246.2
175°	<i>242.8</i>	243.5	242.0	245.1	244.3
177.5°	<i>243.4</i>	243.4	241.5	244.0	242.8
180°	<i>242.8</i>	242.8	242.8	242.8	242.8

(END OF REPORT)