

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: P563181

Luminaire Tested: **SQ4-PP3-025U-050D-835-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563181
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-025U-050D-835-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

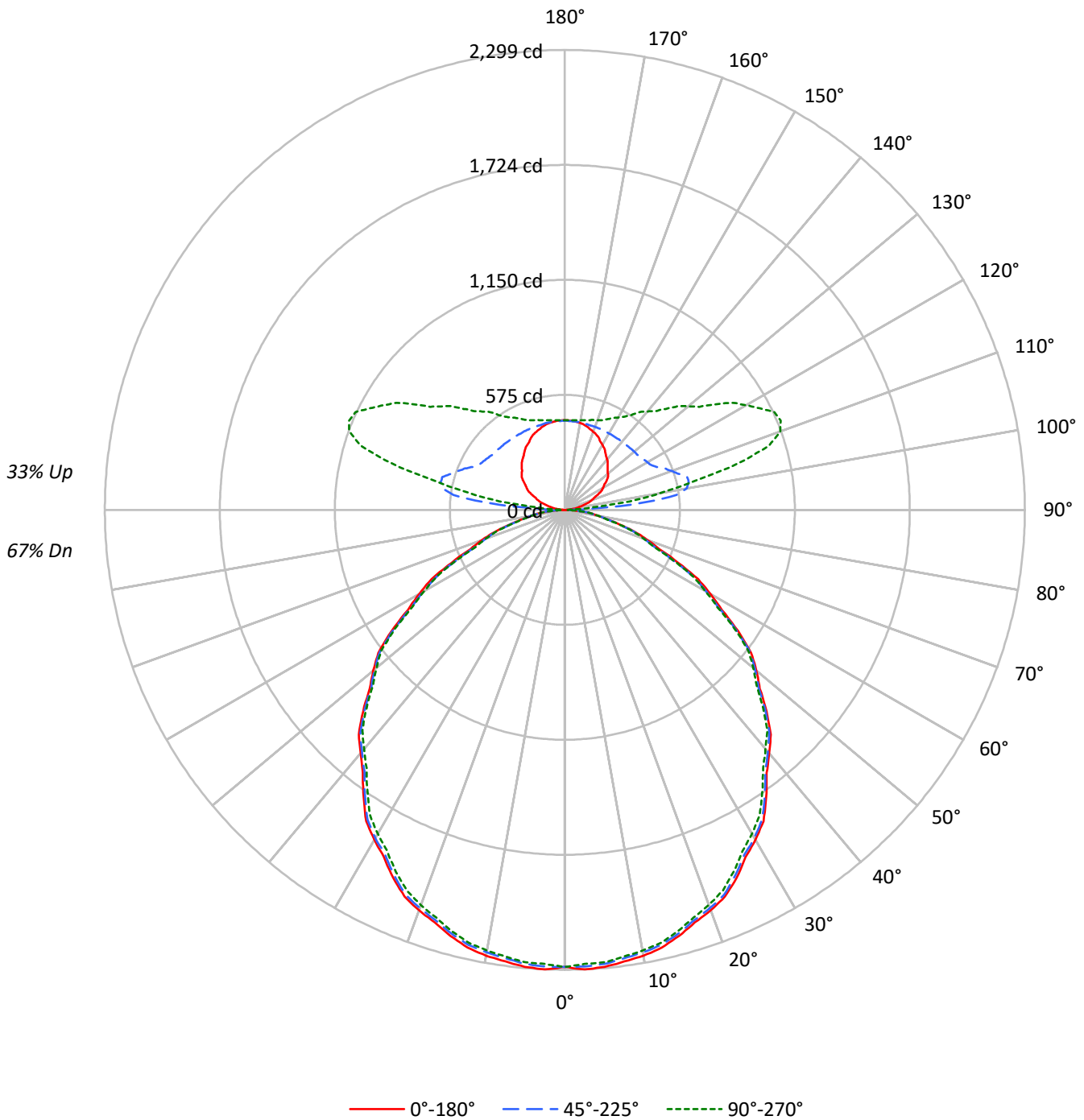
Lumens per Lamp: N/A
Luminaire Lumens: 8748.2 lumens
Efficiency: N/A
Efficacy: 127.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 68.8
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	0
RCR																		
0	111	111	111	111	105	105	105	105	93	93	93	82	82	82	72	72	72	67
1	102	98	94	90	96	92	89	86	82	79	77	72	71	69	64	62	61	57
2	93	85	79	74	87	81	75	71	72	68	64	64	61	58	56	54	52	48
3	85	75	68	62	80	71	65	59	64	58	54	57	53	49	50	47	44	41
4	78	67	59	53	73	63	56	51	57	51	46	51	46	42	45	41	38	35
5	72	60	51	45	67	57	49	44	51	45	40	46	41	37	41	37	33	31
6	66	54	45	39	62	51	43	38	46	40	35	41	36	32	37	33	30	27
7	61	49	40	35	57	46	39	34	42	36	31	38	32	29	34	29	26	24
8	57	44	36	31	53	42	35	30	38	32	28	34	29	26	31	27	24	21
9	53	40	33	28	50	39	32	27	35	29	25	32	27	23	29	24	21	19
10	50	37	30	25	47	36	29	24	32	27	23	29	24	21	26	22	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7027	7027	7027
5°	7079	7035	7011
10°	7067	7016	6985
15°	7020	6982	6943
20°	6973	6934	6881
25°	6890	6843	6775
30°	6763	6727	6642
35°	6586	6541	6458
40°	6375	6335	6263
45°	6201	6158	6097
50°	5979	5940	5883
55°	5669	5594	5551
60°	5161	5013	4988
65°	4547	4357	4343
70°	3926	3763	3763
75°	3379	3332	3283
80°	2979	3014	2943
85°	2332	2544	2544



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.1	2.5
10°-20°	616.9	7.1
20°-30°	924.1	10.6
30°-40°	1083.9	12.4
40°-50°	1087.3	12.4
50°-60°	927.5	10.6
60°-70°	604.9	6.9
70°-80°	303.5	3.5
80°-90°	86.4	1.0
90°-100°	217.9	2.5
100°-110°	572.8	6.5
110°-120°	594.0	6.8
120°-130°	476.5	5.4
130°-140°	373.8	4.3
140°-150°	286.9	3.3
150°-160°	206.7	2.4
160°-170°	126.4	1.4
170°-180°	42.7	0.5
0°-30°	1757.0	20.1
0°-40°	2840.9	32.5
0°-60°	4855.7	55.5
0°-90°	5850.5	66.9
90°-120°	1384.7	15.8
90°-150°	2521.9	28.8
90°-180°	2898.0	33.1
0°-180°	8748.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2285	2285	2285	2285	2285	
5°	2293	2271	2279	2271	2271	218
15°	2205	2183	2193	2185	2181	622
25°	2031	2007	2016	1998	1996	934
35°	1754	1737	1742	1722	1720	1096
45°	1426	1416	1416	1402	1402	1098
55°	1057	1053	1043	1037	1035	940
65°	625	613	599	595	597	624
75°	284	284	280	278	276	309
85°	66	72	72	72	72	78
90°	3	8	23	12	12	5
95°	29	113	375	194	132	32
105°	103	156	633	962	897	109
115°	183	223	507	1012	1155	181
125°	255	286	461	780	920	226
135°	304	335	447	630	714	235
145°	352	375	441	537	579	221
155°	398	410	441	485	499	183
165°	430	436	441	459	464	121
175°	447	447	444	450	450	42
180°	447	447	447	447	447	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2284.9	2284.9	2284.9	2284.9	2284.9
2.5°	2299.3	2280.5	2284.9	2281.5	2272.1
5°	2292.9	2271.4	2278.9	2270.9	2270.9
7.5°	2277.3	2253.8	2261.2	2253.2	2252.8
10°	2262.9	2239.4	2246.8	2238.8	2236.8
12.5°	2242.0	2218.5	2227.6	2218.0	2217.6
15°	2204.8	2183.2	2192.8	2184.7	2180.7
17.5°	2162.7	2139.2	2150.7	2139.5	2137.9
20°	2130.7	2107.2	2118.7	2102.6	2102.6
22.5°	2092.2	2068.7	2081.8	2061.0	2061.0
25°	2030.6	2007.1	2016.5	1998.5	1996.5
27.5°	1957.3	1934.2	1944.0	1923.6	1923.2
30°	1904.4	1882.9	1894.4	1872.3	1870.4
32.5°	1846.7	1826.8	1835.1	1813.0	1811.1
35°	1754.2	1736.6	1742.2	1722.1	1720.2
37.5°	1656.9	1638.9	1645.3	1628.0	1627.3
40°	1588.0	1576.3	1578.0	1563.9	1560.0
42.5°	1523.9	1510.6	1512.3	1498.3	1497.5
45°	1425.8	1416.0	1415.8	1401.8	1401.8
47.5°	1321.7	1314.2	1312.1	1300.4	1300.0
50°	1249.6	1243.7	1241.6	1231.5	1229.5
52.5°	1174.3	1171.5	1164.7	1156.2	1155.9
55°	1057.3	1053.4	1043.3	1037.3	1035.3
57.5°	930.4	922.5	911.1	902.4	903.9
60°	839.1	831.2	815.0	811.0	811.0
62.5°	750.9	741.5	725.3	719.8	722.9
65°	624.8	613.0	598.8	594.8	596.8
67.5°	510.2	499.7	484.2	484.2	482.6
70°	436.6	430.7	418.5	418.5	418.5
72.5°	370.9	368.1	359.3	359.2	357.7
75°	284.4	284.4	280.4	278.3	276.3
77.5°	213.1	213.9	211.9	209.8	206.3
80°	168.2	172.1	170.2	168.2	166.2
82.5°	126.6	130.5	130.2	126.6	126.2
85°	66.1	72.0	72.1	72.1	72.1
87.5°	18.2	25.6	30.2	28.0	29.5
90°	2.9	8.5	22.9	11.5	11.5
92.5°	12.0	58.0	128.4	56.9	36.7
95°	28.7	112.7	375.4	193.5	131.8
97.5°	49.9	123.8	561.7	446.7	329.0
100°	65.9	133.2	619.0	627.3	487.2
102.5°	79.7	142.4	635.1	781.4	661.4
105°	103.2	156.4	633.4	961.5	897.0
107.5°	127.2	176.6	597.2	1055.0	1070.7
110°	143.3	188.1	567.4	1079.1	1146.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	159.3	201.9	539.9	1063.9	1167.0
115°	183.4	222.6	507.3	1012.0	1154.9
117.5°	206.9	242.8	484.9	940.2	1098.8
120°	220.7	254.3	475.7	891.9	1046.0
122.5°	234.4	268.1	468.9	843.7	995.6
125°	255.1	285.9	461.4	779.8	919.9
127.5°	271.7	303.1	455.1	728.3	846.6
130°	280.9	314.5	452.8	696.0	805.3
132.5°	290.0	323.7	450.5	668.3	766.3
135°	303.8	334.6	447.1	629.5	713.6
137.5°	318.1	348.4	446.5	600.5	669.5
140°	329.6	357.6	444.2	577.5	642.0
142.5°	338.7	364.5	444.2	561.3	616.7
145°	352.5	374.9	441.3	536.9	578.9
147.5°	366.3	388.1	441.3	516.6	551.4
150°	375.4	395.0	441.3	505.0	533.1
152.5°	384.6	399.7	441.3	495.7	517.0
155°	398.4	409.6	441.3	484.6	498.7
157.5°	408.7	419.3	441.3	474.8	484.9
160°	415.5	424.0	441.3	470.1	475.7
162.5°	422.4	428.6	441.3	465.5	471.1
165°	429.9	435.5	441.3	458.7	464.3
167.5°	436.8	439.6	444.2	455.7	458.0
170°	441.3	444.1	444.2	455.7	455.7
172.5°	443.6	444.2	444.2	453.3	451.1
175°	447.1	447.1	444.2	449.9	449.9
177.5°	447.1	447.1	444.8	449.3	447.1
180°	447.1	447.1	447.1	447.1	447.1

(END OF REPORT)