

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: P519791

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

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519791
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, G3-1910-536-17)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-F-025U-050D-835-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

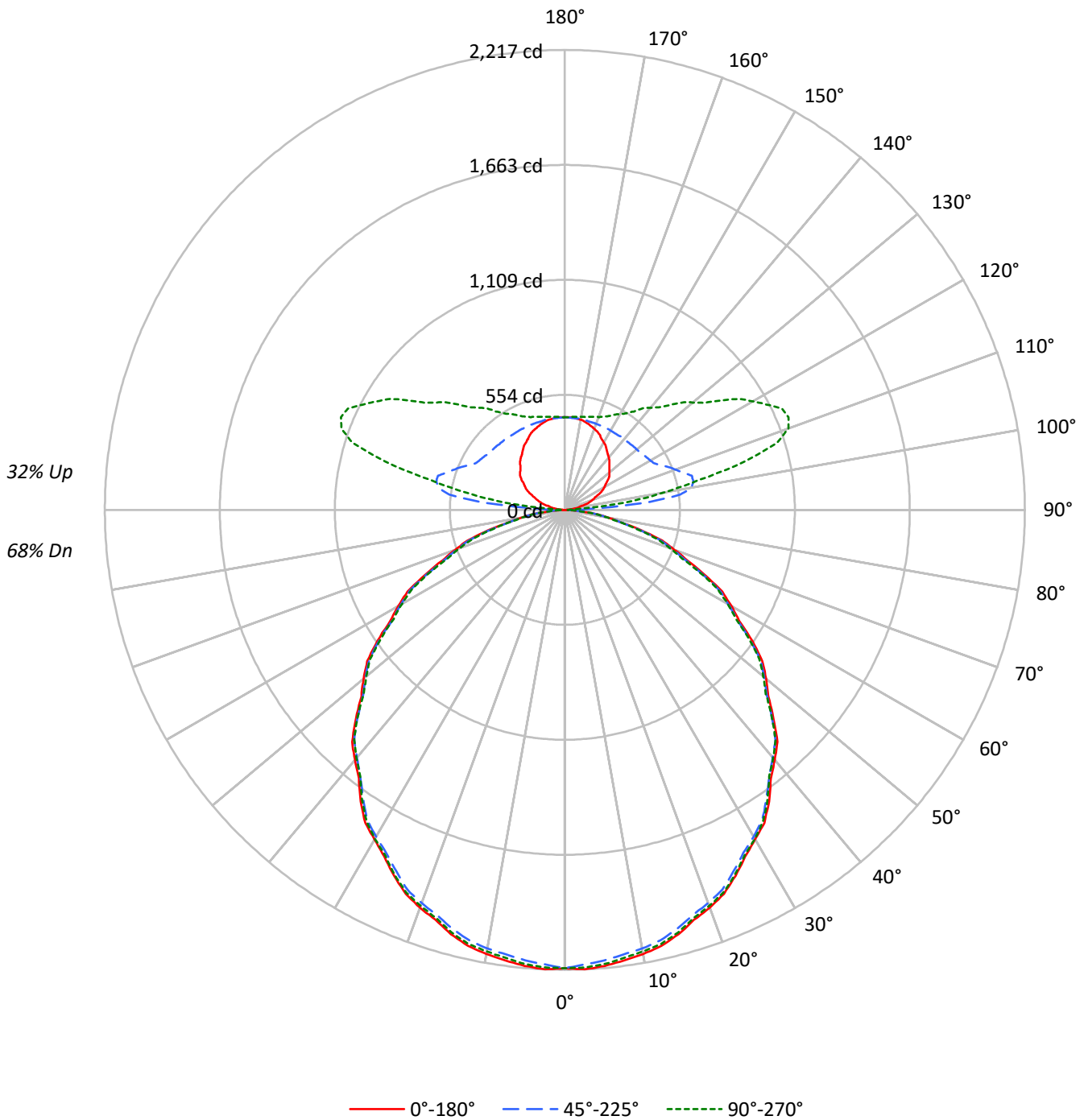
Lumens per Lamp: N/A
Luminaire Lumens: 8931.3 lumens
Efficiency: N/A
Efficacy: 128.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 69.6
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	68				
1	102	97	93	90	96	92	88	85	82	79	77	72	70	69	64	62	61	57				
2	93	85	78	73	87	80	75	70	72	67	63	63	60	57	56	54	51	47				
3	84	75	67	61	79	71	64	58	63	58	53	56	52	48	50	46	43	40				
4	77	66	58	51	72	62	55	49	56	50	45	50	45	41	44	40	37	34				
5	71	59	50	44	67	56	48	42	50	44	39	45	40	36	40	36	32	30				
6	65	53	44	38	61	50	42	37	45	39	34	40	35	31	36	32	29	26				
7	60	48	39	34	57	45	38	32	41	35	30	37	32	28	33	29	25	23				
8	56	43	35	30	53	41	34	29	37	31	27	34	28	25	30	26	23	20				
9	52	40	32	27	49	38	31	26	34	28	24	31	26	22	28	24	20	18				
10	49	36	29	24	46	35	28	23	32	26	22	29	24	20	26	22	19	17				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6796	6796	6796
5°	6813	6731	6785
10°	6790	6707	6753
15°	6743	6659	6715
20°	6680	6603	6651
25°	6605	6525	6585
30°	6513	6461	6503
35°	6441	6364	6397
40°	6318	6259	6270
45°	6189	6137	6137
50°	6058	6001	5972
55°	5916	5837	5805
60°	5695	5604	5568
65°	5425	5317	5253
70°	5054	4947	4841
75°	4534	4394	4288
80°	3668	3615	3510
85°	2191	2505	2611



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.5	2.3
10°-20°	593.7	6.6
20°-30°	891.8	10.0
30°-40°	1064.5	11.9
40°-50°	1090.8	12.2
50°-60°	972.8	10.9
60°-70°	724.5	8.1
70°-80°	393.3	4.4
80°-90°	93.5	1.0
90°-100°	217.9	2.4
100°-110°	572.8	6.4
110°-120°	594.0	6.7
120°-130°	476.4	5.3
130°-140°	373.8	4.2
140°-150°	286.9	3.2
150°-160°	206.7	2.3
160°-170°	126.4	1.4
170°-180°	42.7	0.5
0°-30°	1694.0	19.0
0°-40°	2758.5	30.9
0°-60°	4822.2	54.0
0°-90°	6033.5	67.6
90°-120°	1384.8	15.5
90°-150°	2522.0	28.2
90°-180°	2898.0	32.4
0°-180°	8931.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2210	2210	2210	2210	2210	
5°	2207	2204	2180	2201	2198	210
15°	2118	2112	2091	2109	2109	597
25°	1946	1941	1923	1935	1941	896
35°	1716	1710	1695	1695	1704	1071
45°	1423	1426	1411	1408	1411	1098
55°	1103	1103	1089	1080	1083	983
65°	746	743	731	722	722	738
75°	382	379	370	364	361	403
85°	62	68	71	74	74	87
90°	3	8	23	12	12	4
95°	29	113	376	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°	2209.8	2209.8	2209.8	2209.8	2209.8
2.5°	2216.9	2212.2	2193.2	2209.7	2207.4
5°	2206.8	2203.9	2180.2	2200.8	2197.9
7.5°	2190.8	2185.0	2161.8	2181.8	2179.0
10°	2174.3	2168.4	2147.6	2165.3	2162.4
12.5°	2153.0	2149.5	2126.3	2144.1	2143.5
15°	2118.0	2112.2	2091.4	2109.2	2109.2
17.5°	2071.9	2068.5	2048.2	2065.3	2063.0
20°	2041.1	2035.3	2017.5	2032.3	2032.3
22.5°	2003.3	1999.8	1982.0	1994.5	1996.8
25°	1946.5	1940.7	1922.8	1934.7	1940.6
27.5°	1883.8	1879.1	1864.2	1872.0	1876.1
30°	1834.1	1834.1	1819.3	1822.4	1831.1
32.5°	1789.1	1789.1	1771.9	1775.0	1779.0
35°	1715.7	1709.9	1695.0	1695.2	1703.9
37.5°	1630.5	1627.7	1618.1	1616.4	1618.7
40°	1573.7	1570.9	1559.0	1561.9	1561.9
42.5°	1516.9	1514.1	1502.2	1498.1	1502.8
45°	1422.9	1425.7	1411.0	1408.2	1411.0
47.5°	1330.0	1330.0	1318.2	1310.0	1314.6
50°	1266.1	1266.1	1254.3	1248.3	1248.3
52.5°	1199.8	1202.1	1188.0	1179.8	1182.1
55°	1103.4	1103.4	1088.6	1079.8	1082.7
57.5°	996.9	996.9	982.1	973.3	978.6
60°	925.9	925.9	911.1	902.3	905.2
62.5°	854.9	854.9	840.1	831.2	831.8
65°	745.5	742.6	730.7	721.8	721.8
67.5°	640.1	632.7	623.6	611.7	611.7
70°	562.1	559.2	550.2	538.4	538.4
72.5°	491.1	485.8	476.9	467.4	467.4
75°	381.6	378.7	369.8	363.8	360.9
77.5°	273.3	271.1	270.4	262.2	264.5
80°	207.1	207.1	204.1	198.2	198.2
82.5°	147.9	150.2	145.0	143.7	141.4
85°	62.1	67.9	71.0	74.0	74.0
87.5°	12.4	20.5	21.3	21.3	21.3
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	375.5	193.5	131.8
97.5°	49.9	123.9	561.7	446.7	329.0
100°	66.0	133.2	619.0	627.3	487.2
102.5°	79.7	142.4	635.1	781.4	661.5
105°	103.1	156.4	633.4	961.5	897.0
107.5°	127.2	176.5	597.2	1055.0	1070.7
110°	143.3	188.1	567.4	1079.1	1146.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	159.3	202.0	540.0	1063.9	1167.0
115°	183.4	222.6	507.3	1012.1	1155.0
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°	234.5	268.0	468.8	843.7	995.6
125°	255.0	285.9	461.4	779.8	919.9
127.5°	271.7	303.1	455.1	728.4	846.6
130°	280.8	314.5	452.8	696.1	805.3
132.5°	290.0	323.7	450.5	668.2	766.3
135°	303.8	334.6	447.1	629.5	713.6
137.5°	318.1	348.4	446.5	600.6	669.5
140°	329.6	357.6	444.2	577.5	642.0
142.5°	338.8	364.6	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°	375.5	395.1	441.3	505.1	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°	408.6	419.3	441.3	474.8	484.9
160°	415.5	423.9	441.3	470.1	475.7
162.5°	422.4	428.6	441.3	465.5	471.1
165°	429.8	435.5	441.3	458.6	464.3
167.5°	436.7	439.6	444.2	455.8	458.0
170°	441.3	444.2	444.2	455.7	455.7
172.5°	443.6	444.2	444.2	453.4	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)