

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: P519815

Luminaire Tested: **SQ4-F-025U-075D-835-1D-UNV-STD-W-12**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519815
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, G3-1910-536-18)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-F-025U-075D-835-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

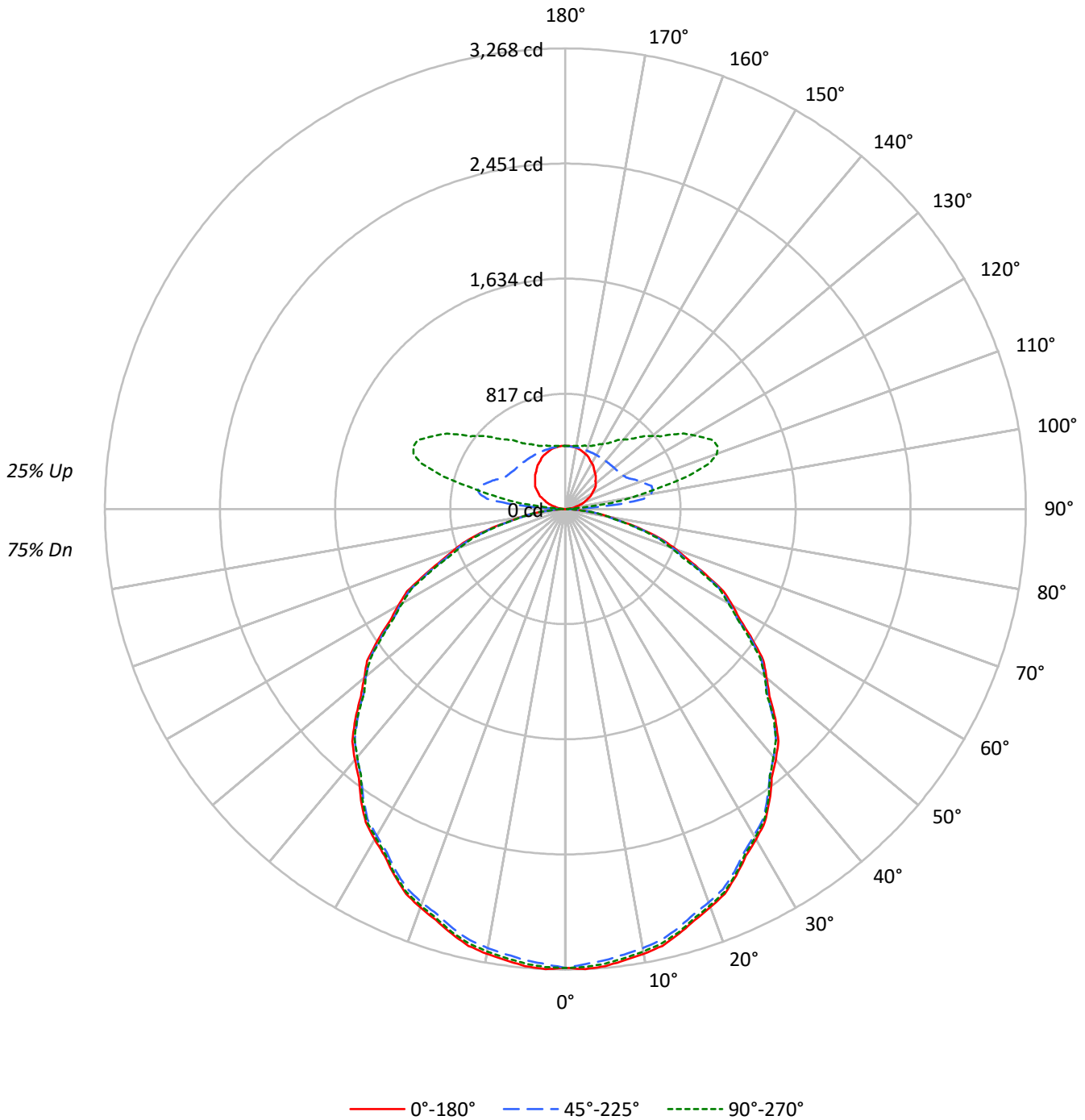
Lumens per Lamp: N/A
Luminaire Lumens: 11789.5 lumens
Efficiency: N/A
Efficacy: 124.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 94.4
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	113	113	113	113	108	108	108	108	97	97	97	88	88	88	79	79	79	75				
1	103	99	95	91	98	94	91	87	86	83	80	78	75	73	70	69	67	63				
2	94	86	80	74	89	82	77	72	75	70	66	68	64	61	62	59	56	53				
3	86	76	68	62	81	72	65	60	66	60	56	60	56	52	55	51	48	45				
4	79	67	59	52	74	64	57	51	59	52	47	53	48	44	49	45	41	38				
5	72	60	51	45	68	57	49	44	52	46	41	48	43	38	44	39	36	33				
6	67	54	45	39	63	52	44	38	47	41	36	43	38	34	40	35	31	29				
7	62	49	40	34	58	47	39	33	43	36	32	39	34	30	36	32	28	26				
8	57	44	36	31	54	43	35	30	39	33	28	36	31	27	33	29	25	23				
9	53	41	33	27	51	39	32	27	36	30	25	33	28	24	31	26	23	21				
10	50	37	30	25	48	36	29	24	33	27	23	31	25	22	28	24	20	19				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10014	10014	10014
5°	10053	9925	9998
10°	10012	9883	9957
15°	9935	9813	9897
20°	9845	9729	9807
25°	9737	9637	9707
30°	9614	9509	9561
35°	9488	9388	9432
40°	9328	9233	9221
45°	9168	9052	9078
50°	8913	8842	8842
55°	8706	8595	8516
60°	8425	8280	8208
65°	7971	7820	7712
70°	7486	7300	7114
75°	6735	6490	6349
80°	5386	5281	5228
85°	3229	3645	3751



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	307.4	2.6
10°-20°	875.0	7.4
20°-30°	1314.6	11.2
30°-40°	1568.6	13.3
40°-50°	1608.7	13.6
50°-60°	1433.4	12.2
60°-70°	1068.8	9.1
70°-80°	579.6	4.9
80°-90°	135.6	1.2
90°-100°	217.9	1.8
100°-110°	572.8	4.9
110°-120°	594.0	5.0
120°-130°	476.4	4.0
130°-140°	373.8	3.2
140°-150°	286.9	2.4
150°-160°	206.7	1.8
160°-170°	126.4	1.1
170°-180°	42.7	0.4
0°-30°	2497.0	21.2
0°-40°	4065.6	34.5
0°-60°	7107.7	60.3
0°-90°	8891.7	75.4
90°-120°	1384.8	11.7
90°-150°	2522.0	21.4
90°-180°	2898.0	24.6
0°-180°	11789.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3256	3256	3256	3256	3256	
5°	3256	3250	3215	3241	3238	309
15°	3120	3115	3082	3106	3109	880
25°	2870	2867	2840	2855	2861	1322
35°	2527	2521	2500	2501	2512	1579
45°	2108	2099	2081	2081	2087	1622
55°	1624	1621	1603	1588	1588	1450
65°	1095	1095	1075	1063	1060	1090
75°	567	555	546	537	534	595
85°	92	97	103	103	106	127
90°	3	8	23	12	12	5
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°	3256.3	3256.3	3256.3	3256.3	3256.3
2.5°	3268.1	3261.2	3232.6	3256.3	3253.9
5°	3256.3	3250.5	3214.9	3241.4	3238.5
7.5°	3229.7	3223.4	3188.4	3214.9	3214.3
10°	3206.1	3197.4	3164.7	3191.2	3188.4
12.5°	3175.4	3166.7	3134.0	3160.5	3157.7
15°	3120.5	3114.7	3082.1	3105.8	3108.6
17.5°	3057.9	3046.9	3017.7	3040.8	3043.7
20°	3008.3	2999.6	2972.8	2993.6	2996.5
22.5°	2956.3	2947.7	2920.9	2941.7	2944.5
25°	2869.5	2866.7	2840.0	2854.9	2860.7
27.5°	2775.6	2767.6	2746.1	2757.4	2763.2
30°	2707.2	2701.3	2677.6	2686.6	2692.4
32.5°	2636.3	2632.9	2611.5	2615.8	2623.9
35°	2527.1	2521.3	2500.5	2500.8	2512.3
37.5°	2406.0	2399.6	2382.4	2379.6	2384.2
40°	2323.4	2314.7	2299.8	2296.8	2296.8
42.5°	2238.3	2231.9	2212.4	2207.2	2214.1
45°	2107.9	2099.2	2081.3	2081.4	2087.2
47.5°	1966.7	1963.3	1942.5	1933.2	1935.5
50°	1862.8	1868.6	1848.1	1836.6	1848.1
52.5°	1773.1	1769.6	1751.2	1739.5	1744.1
55°	1623.7	1620.8	1603.0	1588.3	1588.3
57.5°	1473.7	1466.3	1447.8	1436.7	1445.4
60°	1369.8	1367.0	1346.2	1325.7	1334.4
62.5°	1265.9	1260.7	1239.9	1226.4	1232.8
65°	1095.3	1095.3	1074.6	1062.7	1059.8
67.5°	945.9	932.0	920.5	906.2	902.2
70°	832.5	821.0	811.9	799.8	791.2
72.5°	721.5	714.6	700.8	689.0	687.3
75°	566.8	555.3	546.2	537.2	534.3
77.5°	403.3	401.0	392.6	387.9	389.7
80°	304.1	304.1	298.2	298.1	295.2
82.5°	214.3	216.6	215.5	210.8	210.2
85°	91.5	97.3	103.3	103.4	106.3
87.5°	17.1	29.8	30.7	28.3	28.3
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)