

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: P520112

Luminaire Tested: **SQ4-F-0U-075D-930-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P520112
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (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-0U-075D-930-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
DIRECT ONLY
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

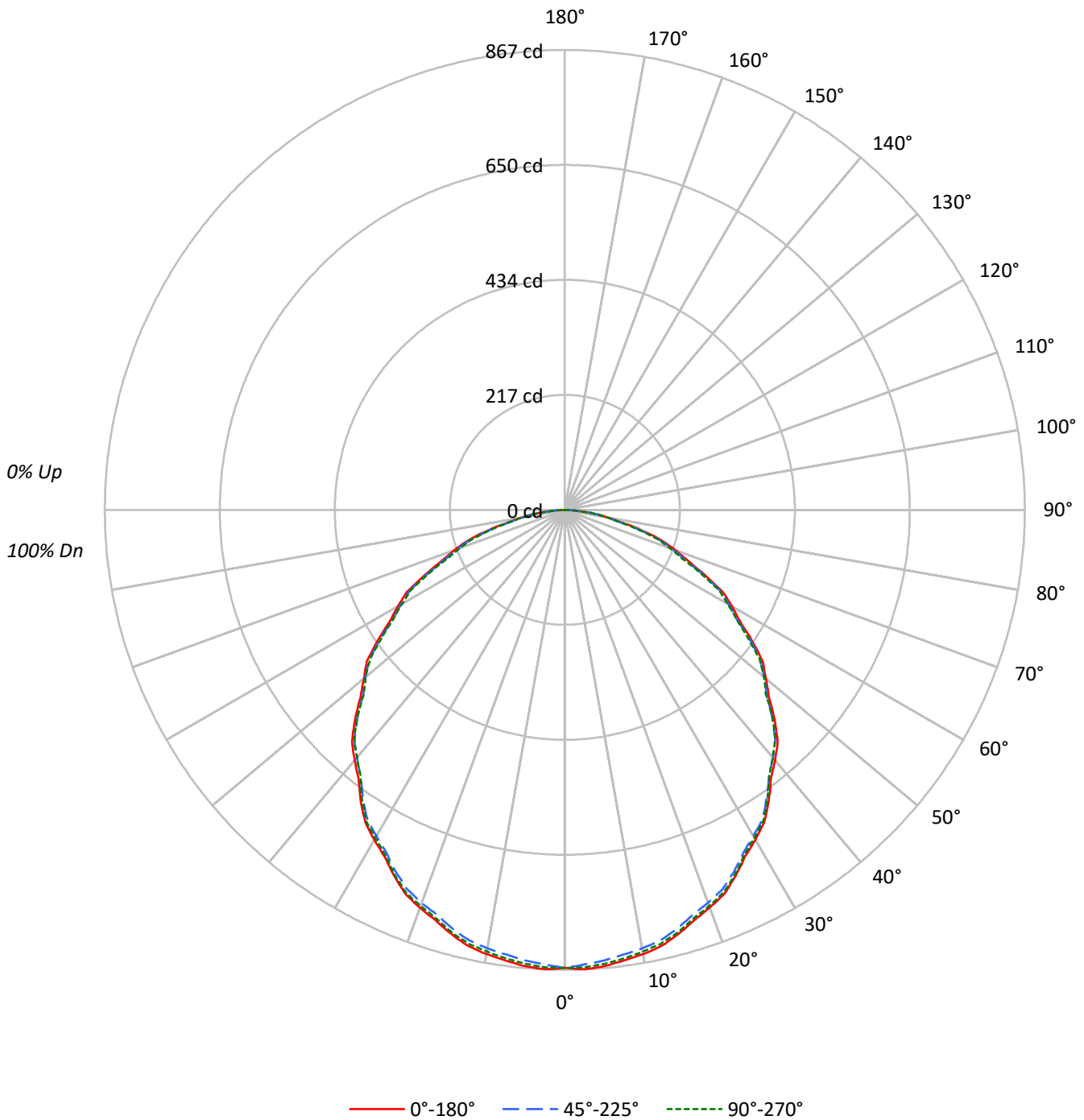
Lumens per Lamp: N/A
Luminaire Lumens: 2357.9 lumens
Efficiency: N/A
Efficacy: 98.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 24
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	61	59
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	64	51	43	37	49	42	36	48	41	36	47	41	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7969	7969	7969
5°	7999	7898	7956
10°	7967	7865	7923
15°	7906	7809	7875
20°	7835	7742	7804
25°	7749	7669	7725
30°	7650	7567	7608
35°	7550	7471	7506
40°	7423	7347	7337
45°	7295	7204	7223
50°	7092	7036	7036
55°	6928	6840	6777
60°	6704	6589	6532
65°	6342	6224	6137
70°	5956	5808	5662
75°	5361	5165	5051
80°	4288	4203	4160
85°	2572	2911	2975



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.5	3.5
10°-20°	232.1	9.8
20°-30°	348.7	14.8
30°-40°	416.1	17.6
40°-50°	426.7	18.1
50°-60°	380.2	16.1
60°-70°	283.5	12.0
70°-80°	153.7	6.5
80°-90°	35.3	1.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	662.3	28.1
0°-40°	1078.4	45.7
0°-60°	1885.3	80.0
0°-90°	2357.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2357.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	864	864	864	864	864	
5°	864	862	853	860	859	82
15°	828	826	818	824	824	233
25°	761	760	753	757	759	351
35°	670	669	663	663	666	419
45°	559	557	552	552	554	430
55°	431	430	425	421	421	385
65°	290	290	285	282	281	289
75°	150	147	145	142	142	158
85°	24	26	28	28	28	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	863.7	863.7	863.7	863.7	863.7
2.5°	866.9	865.0	857.5	863.7	863.1
5°	863.7	862.2	852.8	859.8	859.0
7.5°	856.7	855.0	845.7	852.8	852.6
10°	850.4	848.2	839.5	846.5	845.7
12.5°	842.3	840.0	831.3	838.3	837.5
15°	827.7	826.2	817.6	823.9	824.5
17.5°	811.1	808.2	800.4	806.5	807.3
20°	798.0	795.6	788.5	794.0	794.8
22.5°	784.2	781.8	774.8	780.3	781.0
25°	761.2	760.4	753.3	757.2	758.8
27.5°	736.3	734.1	728.4	731.5	732.9
30°	718.1	716.6	710.3	712.7	714.1
32.5°	699.3	698.4	692.7	693.9	696.0
35°	670.3	668.8	663.3	663.4	666.4
37.5°	638.2	636.5	632.0	631.2	632.5
40°	616.3	614.0	610.0	609.2	609.2
42.5°	593.7	592.0	586.8	585.4	587.3
45°	559.1	556.8	552.1	552.1	553.6
47.5°	521.7	520.8	515.3	512.8	513.4
50°	494.1	495.7	490.2	487.1	490.2
52.5°	470.3	469.4	464.5	461.4	462.6
55°	430.7	429.9	425.2	421.3	421.3
57.5°	390.9	388.9	384.0	381.1	383.4
60°	363.3	362.6	357.1	351.6	354.0
62.5°	335.8	334.4	328.9	325.3	327.0
65°	290.5	290.5	285.1	281.9	281.1
67.5°	250.9	247.2	244.1	240.4	239.3
70°	220.8	217.8	215.3	212.2	209.9
72.5°	191.4	189.5	185.9	182.7	182.3
75°	150.4	147.3	144.9	142.5	141.7
77.5°	107.0	106.4	104.1	102.9	103.3
80°	80.7	80.7	79.1	79.1	78.3
82.5°	56.9	57.5	57.2	55.9	55.8
85°	24.3	25.8	27.5	27.5	28.1
87.5°	4.4	7.5	6.9	6.9	6.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)