

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: P520104

Luminaire Tested: **SQ4-F-0U-075D-835-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P520104
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-835-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
DIRECT ONLY
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

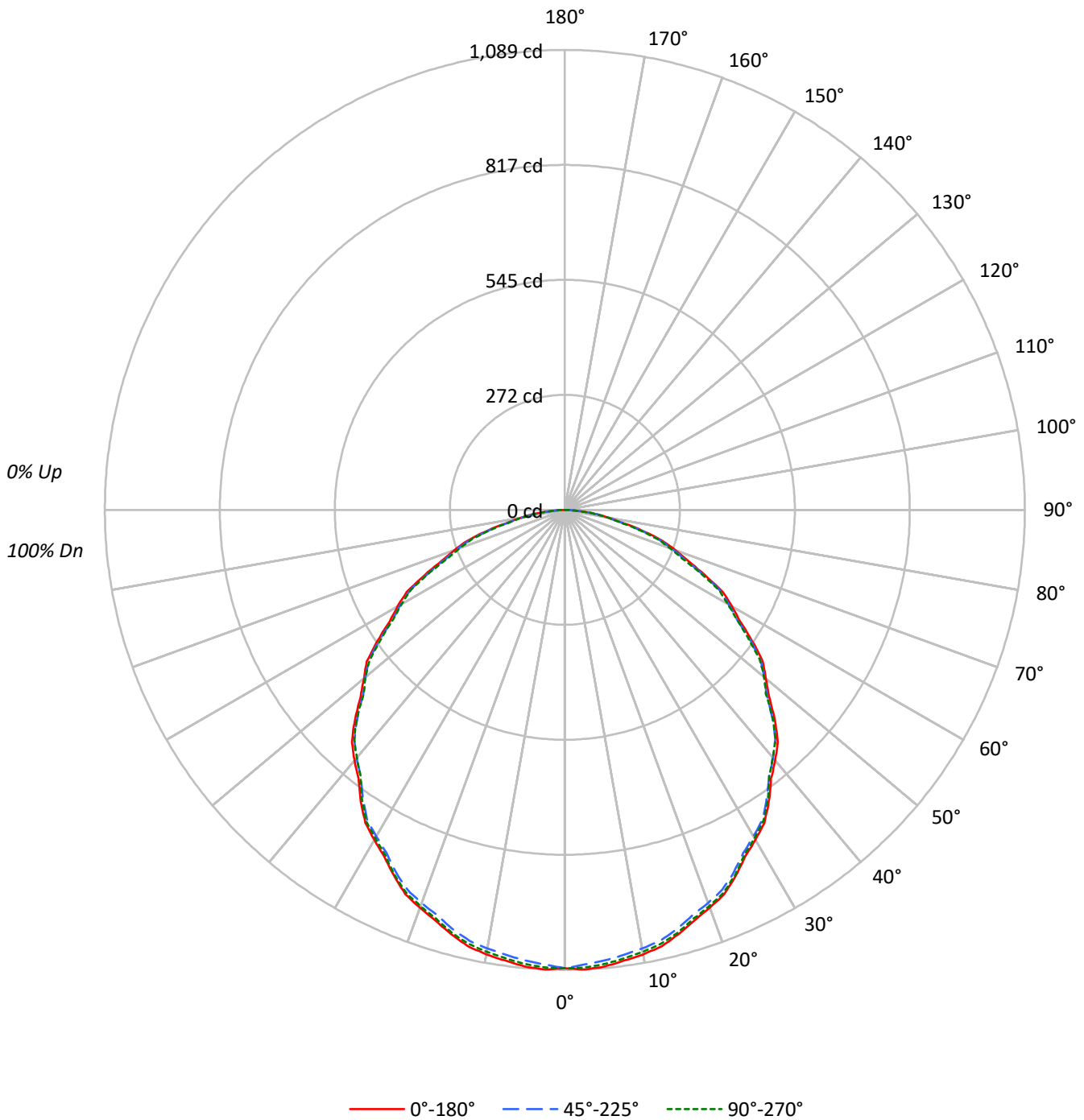
Lumens per Lamp: N/A
Luminaire Lumens: 2963.1 lumens
Efficiency: N/A
Efficacy: 123.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84				84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70				70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	61	59				59
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51				51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44				44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38				38
7	65	52	43	37	64	51	43	37	49	42	36	48	41	36	47	41	36	34				34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30				30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	27				27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25				25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10014	10014	10014
5°	10052	9925	9998
10°	10012	9883	9957
15°	9936	9813	9897
20°	9846	9729	9807
25°	9737	9637	9708
30°	9614	9508	9562
35°	9488	9388	9432
40°	9328	9233	9221
45°	9167	9053	9077
50°	8912	8842	8842
55°	8705	8594	8516
60°	8425	8280	8208
65°	7971	7820	7713
70°	7486	7300	7113
75°	6734	6491	6349
80°	5388	5281	5228
85°	3229	3642	3747



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.5	3.5
10°-20°	291.7	9.8
20°-30°	438.2	14.8
30°-40°	522.9	17.6
40°-50°	536.2	18.1
50°-60°	477.8	16.1
60°-70°	356.3	12.0
70°-80°	193.2	6.5
80°-90°	44.4	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°	832.3	28.1
0°-40°	1355.2	45.7
0°-60°	2369.2	80.0
0°-90°	2963.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2963.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1085	1085	1085	1085	1085	
5°	1085	1084	1072	1080	1080	103
15°	1040	1038	1027	1035	1036	293
25°	956	956	947	952	954	441
35°	842	840	834	834	837	526
45°	703	700	694	694	696	541
55°	541	540	534	529	529	483
65°	365	365	358	354	353	363
75°	189	185	182	179	178	198
85°	30	32	34	34	35	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1085.4	1085.4	1085.4	1085.4	1085.4
2.5°	1089.4	1087.1	1077.5	1085.4	1084.6
5°	1085.4	1083.5	1071.6	1080.5	1079.5
7.5°	1076.6	1074.5	1062.8	1071.6	1071.4
10°	1068.7	1065.8	1054.9	1063.8	1062.8
12.5°	1058.5	1055.6	1044.7	1053.5	1052.6
15°	1040.2	1038.2	1027.4	1035.2	1036.2
17.5°	1019.3	1015.6	1005.9	1013.6	1014.6
20°	1002.8	999.9	990.9	997.8	998.8
22.5°	985.4	982.6	973.6	980.5	981.5
25°	956.5	955.5	946.7	951.6	953.6
27.5°	925.2	922.6	915.4	919.1	921.1
30°	902.4	900.4	892.5	895.5	897.5
32.5°	878.8	877.6	870.5	872.0	874.6
35°	842.4	840.4	833.5	833.6	837.4
37.5°	802.0	799.8	794.1	793.2	794.7
40°	774.5	771.6	766.6	765.6	765.6
42.5°	746.1	744.0	737.5	735.8	738.0
45°	702.6	699.8	693.8	693.8	695.7
47.5°	655.6	654.4	647.5	644.4	645.2
50°	620.9	622.9	616.0	612.2	616.0
52.5°	591.0	589.8	583.7	579.8	581.4
55°	541.2	540.2	534.3	529.4	529.4
57.5°	491.2	488.8	482.6	478.9	481.8
60°	456.6	455.6	448.7	441.9	444.8
62.5°	422.0	420.2	413.3	408.8	410.9
65°	365.1	365.1	358.2	354.3	353.3
67.5°	315.3	310.7	306.8	302.1	300.7
70°	277.5	273.7	270.6	266.6	263.7
72.5°	240.5	238.2	233.6	229.7	229.1
75°	188.9	185.1	182.1	179.1	178.1
77.5°	134.4	133.6	130.9	129.3	129.9
80°	101.4	101.4	99.4	99.4	98.4
82.5°	71.4	72.2	71.8	70.3	70.1
85°	30.5	32.5	34.4	34.4	35.4
87.5°	5.5	9.3	8.7	8.7	8.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)