

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P521518

Luminaire Tested: **SQ4-F-0U-075D-93050-1D-UNV-STD-W-4 (3500K)**

Issue Date: 5/5/2021

Test Information

Test Method: LM-79-08
Report Number: P521518
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-33)
Test Lab: INNOVATION CENTER
Issue Date: 5/5/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-F-0U-075D-93050-1D-UNV-STD-W-4 (3500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

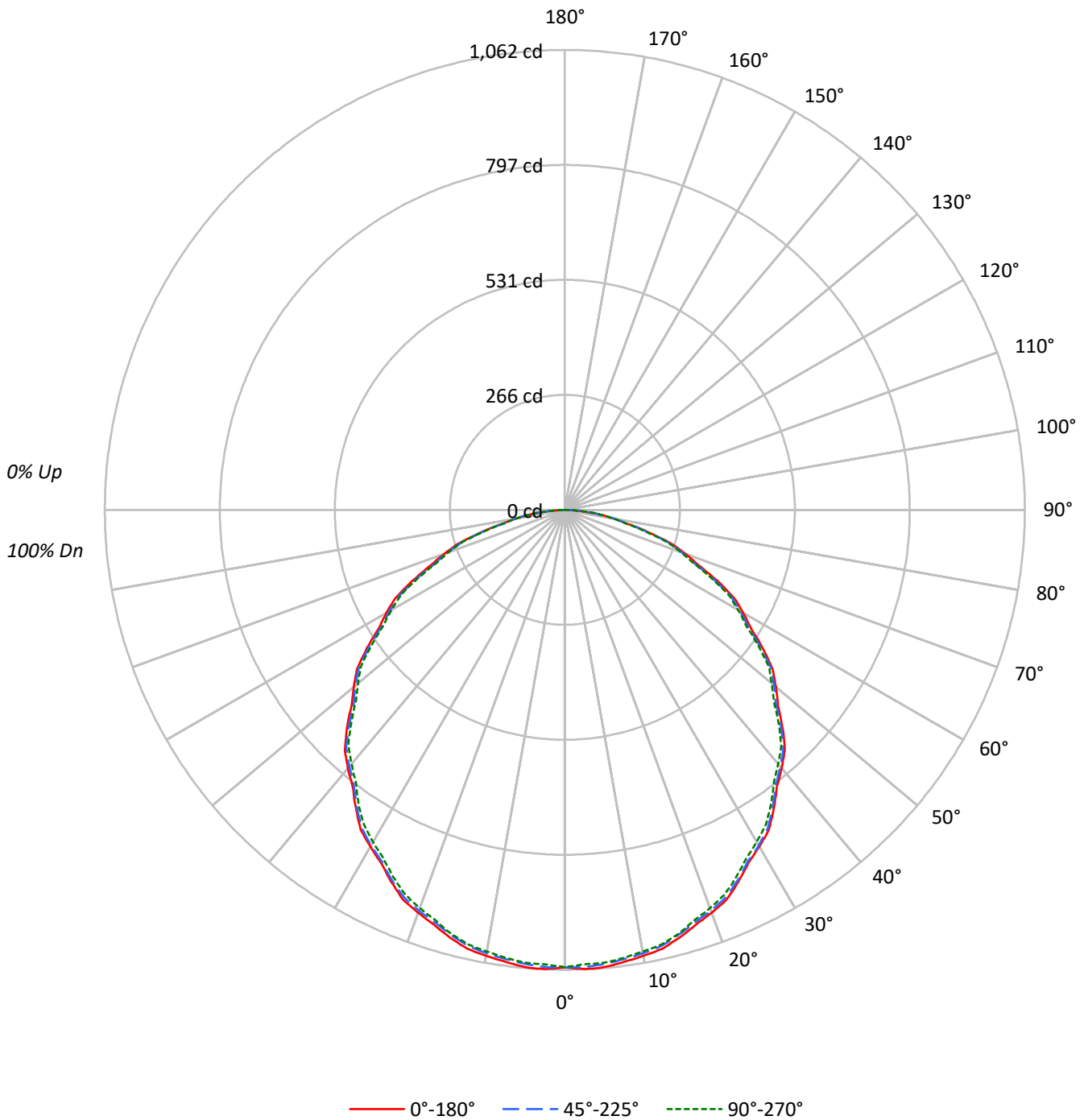
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3011.3 lumens
Efficiency: N/A
Efficacy: 95.3 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.25 / 1.38
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 31.6
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	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	94	97	94	91	93	91	88	90	88	86	84				
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70				
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58				
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50				
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43				
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38				
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33				
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	30				
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27				
10	53	39	32	26	51	39	31	26	38	31	26	37	31	26	36	30	26	24				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9743	9743	9743
5°	9817	9752	9725
10°	9799	9743	9706
15°	9771	9704	9685
20°	9720	9671	9612
25°	9651	9610	9528
30°	9567	9535	9439
35°	9472	9427	9348
40°	9382	9322	9226
45°	9277	9199	9107
50°	9129	9057	8942
55°	8976	8863	8750
60°	8765	8617	8525
65°	8492	8274	8165
70°	7985	7769	7688
75°	7129	6987	6880
80°	5898	5951	5898
85°	4234	4764	4975



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.9	3.3
10°-20°	286.2	9.5
20°-30°	432.9	14.4
30°-40°	521.2	17.3
40°-50°	541.4	18.0
50°-60°	491.3	16.3
60°-70°	374.7	12.4
70°-80°	208.8	6.9
80°-90°	54.8	1.8
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°	819.1	27.2
0°-40°	1340.3	44.5
0°-60°	2373.0	78.8
0°-90°	3011.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3011.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1056	1056	1056	1056	1056	
5°	1060	1050	1053	1051	1050	101
15°	1023	1011	1016	1014	1014	289
25°	948	938	944	935	936	437
35°	841	835	837	828	830	526
45°	711	704	705	696	698	548
55°	558	555	551	544	544	498
65°	389	385	379	373	374	383
75°	200	199	196	194	193	213
85°	40	45	45	47	47	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1056.0	1056.0	1056.0	1056.0	1056.0
2.5°	1061.6	1053.8	1056.8	1054.3	1050.4
5°	1060.0	1050.2	1053.0	1051.0	1050.0
7.5°	1052.4	1042.6	1046.4	1043.4	1043.2
10°	1046.0	1036.2	1040.0	1037.0	1036.0
12.5°	1038.0	1027.4	1031.2	1028.2	1028.0
15°	1023.0	1011.3	1016.0	1014.0	1014.0
17.5°	1004.4	992.9	998.6	995.0	993.4
20°	990.0	979.2	985.0	979.0	979.0
22.5°	974.8	964.0	969.0	962.2	962.2
25°	948.0	938.2	944.0	935.0	936.0
27.5°	918.8	910.0	915.0	906.4	906.8
30°	898.0	889.2	895.0	884.0	886.0
32.5°	876.4	868.4	871.8	862.4	862.8
35°	841.0	835.1	837.0	828.0	830.0
37.5°	804.6	797.8	799.6	790.4	792.4
40°	779.0	772.2	774.0	764.0	766.0
42.5°	751.8	745.7	746.8	736.9	739.6
45°	711.0	704.2	705.0	696.0	698.0
47.5°	667.2	661.7	660.6	652.4	654.2
50°	636.0	632.1	631.0	622.0	623.0
52.5°	604.8	601.7	599.0	590.9	593.4
55°	558.0	555.1	551.0	544.0	544.0
57.5°	509.4	506.5	501.4	494.4	496.4
60°	475.0	472.1	467.0	460.0	462.0
62.5°	440.6	437.7	431.8	425.6	426.8
65°	389.0	385.1	379.0	373.0	374.0
67.5°	333.6	329.9	324.8	319.0	320.2
70°	296.0	293.1	288.0	283.0	285.0
72.5°	256.8	253.9	249.6	247.0	246.6
75°	200.0	199.0	196.0	194.0	193.0
77.5°	146.2	147.6	144.0	143.2	143.0
80°	111.0	113.9	112.0	112.0	111.0
82.5°	79.8	84.3	83.2	83.2	83.0
85°	40.0	44.9	45.0	47.0	47.0
87.5°	11.2	15.9	18.4	19.2	19.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)