

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: P563475

Luminaire Tested: **SQ4-PP3-0U-050D-840-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563475
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-0U-050D-840-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
DIRECT ONLY
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

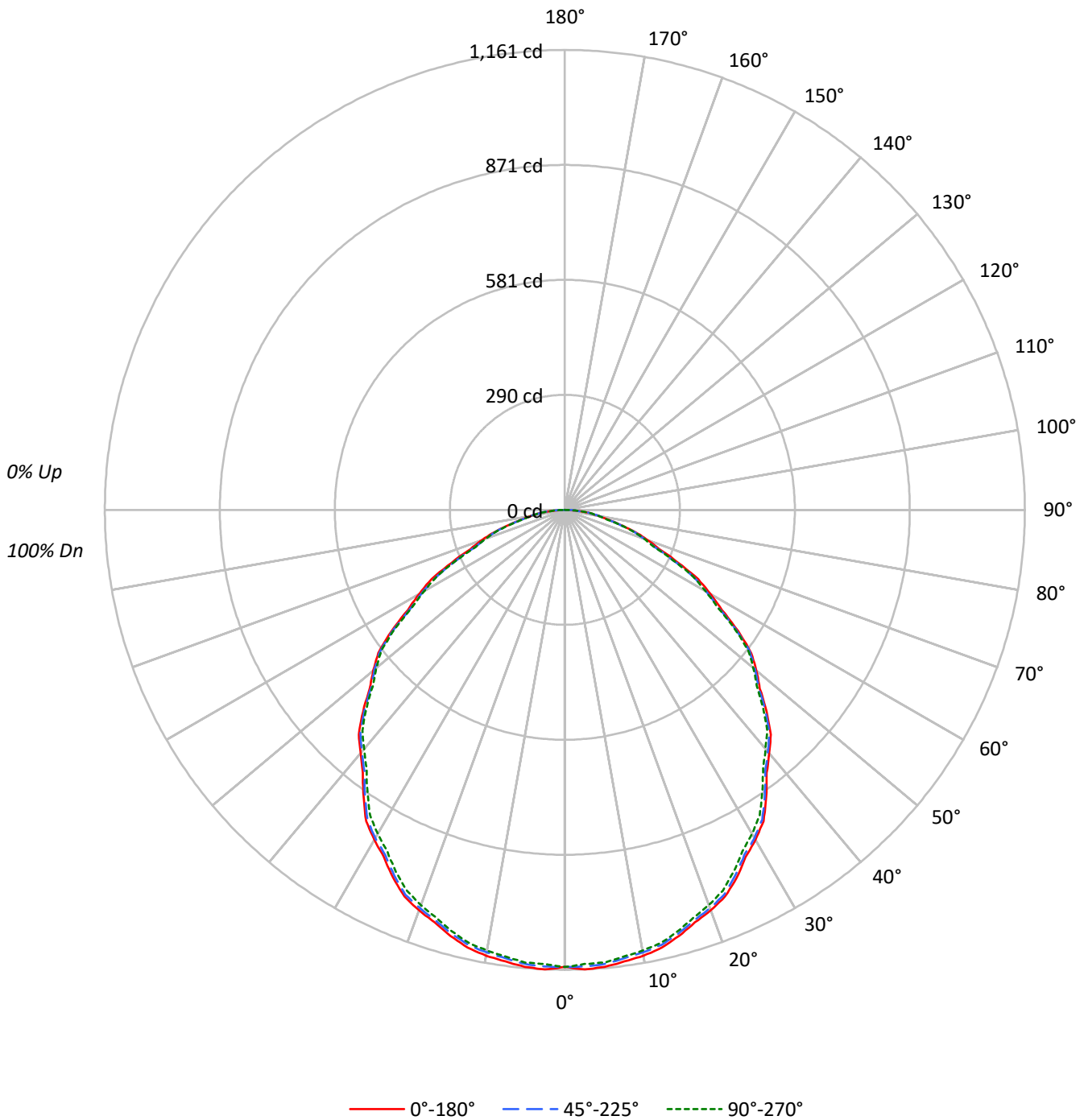
Lumens per Lamp: N/A
Luminaire Lumens: 2953.4 lumens
Efficiency: N/A
Efficacy: 110.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Direct

Input Watts (W): 26.7
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	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	84	79	76	81	77	74	72
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61
4	84	72	64	57	82	71	63	57	69	62	56	66	60	56	64	59	55	53
5	77	65	56	50	75	64	56	49	62	54	49	60	53	48	58	52	48	46
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42	40
7	66	53	45	39	65	52	44	39	51	44	38	49	43	38	48	42	38	36
8	62	49	40	35	60	48	40	34	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7097	7097	7097
5°	7150	7106	7081
10°	7138	7087	7056
15°	7091	7052	7013
20°	7044	7004	6951
25°	6960	6912	6843
30°	6831	6795	6709
35°	6652	6607	6523
40°	6439	6399	6325
45°	6264	6219	6158
50°	6039	6000	5942
55°	5726	5650	5607
60°	5213	5063	5039
65°	4592	4401	4387
70°	3965	3802	3802
75°	3413	3365	3318
80°	3011	3046	2972
85°	2357	2569	2569



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.1	3.7
10°-20°	311.6	10.5
20°-30°	466.7	15.8
30°-40°	547.4	18.5
40°-50°	549.1	18.6
50°-60°	468.4	15.9
60°-70°	305.5	10.3
70°-80°	153.3	5.2
80°-90°	42.4	1.4
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°	887.4	30.0
0°-40°	1434.7	48.6
0°-60°	2452.3	83.0
0°-90°	2953.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2953.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1154	1154	1154	1154	1154	
5°	1158	1147	1151	1147	1147	110
15°	1114	1103	1107	1103	1101	314
25°	1026	1014	1018	1009	1008	472
35°	886	877	880	870	869	553
45°	720	715	715	708	708	554
55°	534	532	527	524	523	475
65°	316	310	302	300	301	315
75°	144	144	142	141	140	156
85°	33	36	36	36	36	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1153.9	1153.9	1153.9	1153.9	1153.9
2.5°	1161.2	1151.7	1153.9	1152.2	1147.5
5°	1158.0	1147.1	1150.9	1146.9	1146.9
7.5°	1150.1	1138.2	1142.0	1138.0	1137.8
10°	1142.8	1130.9	1134.7	1130.7	1129.7
12.5°	1132.3	1120.4	1125.0	1120.2	1120.0
15°	1113.5	1102.6	1107.4	1103.3	1101.3
17.5°	1092.2	1080.4	1086.2	1080.5	1079.7
20°	1076.1	1064.2	1070.0	1061.9	1061.9
22.5°	1056.6	1044.8	1051.4	1040.9	1040.9
25°	1025.5	1013.6	1018.4	1009.3	1008.3
27.5°	988.5	976.8	981.8	971.5	971.3
30°	961.8	950.9	956.7	945.6	944.6
32.5°	932.7	922.6	926.8	915.6	914.7
35°	885.9	877.0	879.9	869.7	868.7
37.5°	836.8	827.7	830.9	822.2	821.8
40°	802.0	796.1	796.9	789.8	787.8
42.5°	769.6	762.9	763.8	756.7	756.3
45°	720.1	715.1	715.0	707.9	707.9
47.5°	667.5	663.7	662.6	656.8	656.6
50°	631.1	628.1	627.0	621.9	621.0
52.5°	593.0	591.7	588.2	583.9	583.7
55°	534.0	532.0	526.9	523.9	522.9
57.5°	469.9	465.9	460.2	455.7	456.5
60°	423.8	419.8	411.6	409.6	409.6
62.5°	379.3	374.5	366.3	363.5	365.1
65°	315.5	309.6	302.4	300.4	301.4
67.5°	257.7	252.3	244.5	244.5	243.7
70°	220.5	217.5	211.4	211.4	211.4
72.5°	187.3	185.9	181.4	181.4	180.6
75°	143.6	143.6	141.6	140.6	139.6
77.5°	107.6	108.0	107.0	105.9	104.2
80°	85.0	86.9	86.0	84.9	83.9
82.5°	63.9	65.9	65.7	63.9	63.7
85°	33.4	36.3	36.4	36.4	36.4
87.5°	8.9	12.1	12.9	13.0	13.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)