

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: P563524

Luminaire Tested: **SQ4-PP3-0U-100D-840-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563524
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-100D-840-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
DIRECT ONLY
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

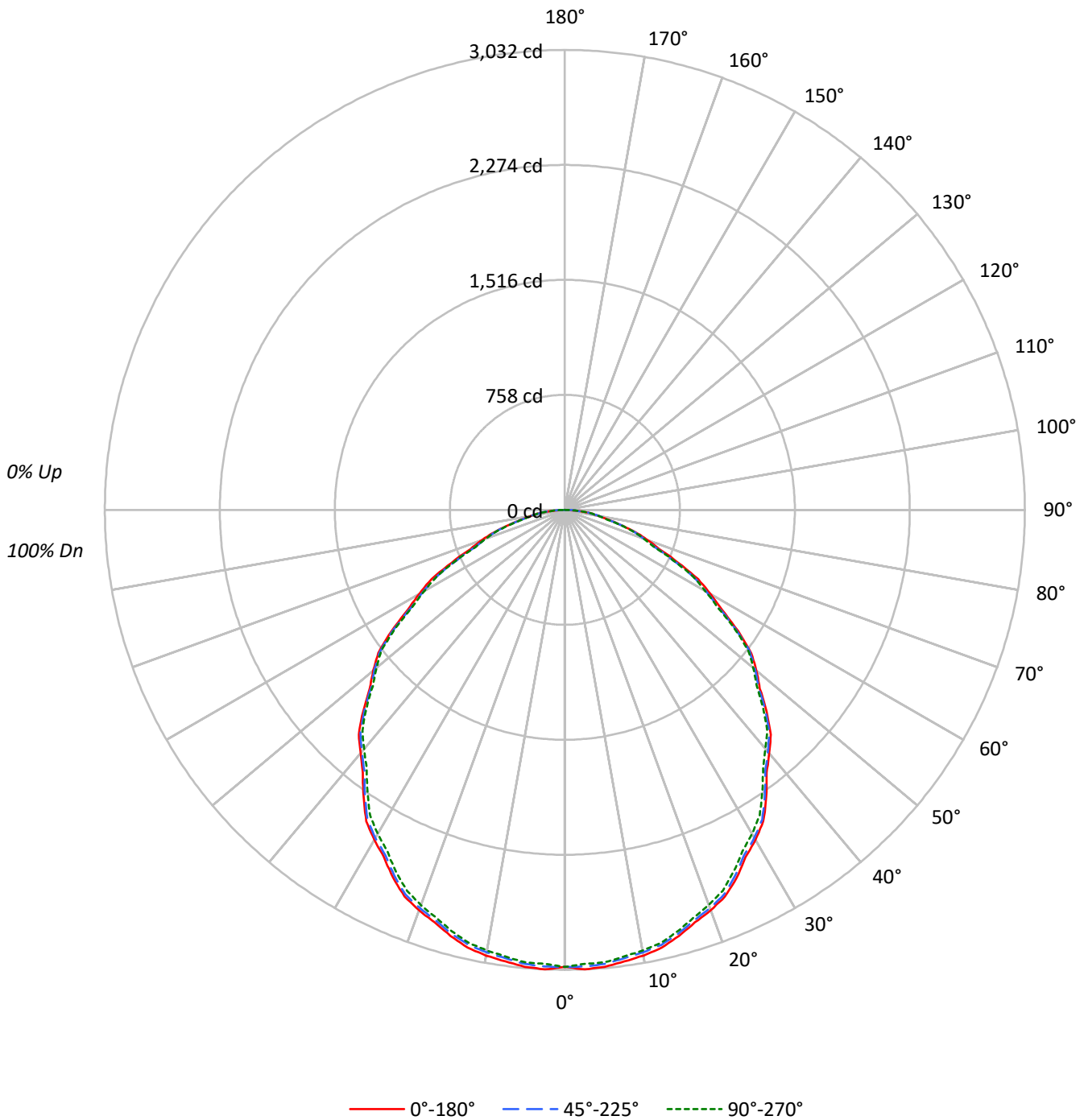
Lumens per Lamp: N/A
Luminaire Lumens: 7711.8 lumens
Efficiency: N/A
Efficacy: 107.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Direct

Input Watts (W): 71.7
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	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°	13900	13900	13900
5°	14001	13916	13867
10°	13978	13879	13817
15°	13886	13810	13734
20°	13793	13716	13612
25°	13629	13535	13401
30°	13377	13307	13138
35°	13027	12938	12775
40°	12611	12531	12388
45°	12266	12180	12059
50°	11826	11750	11636
55°	11214	11065	10981
60°	10209	9916	9867
65°	8993	8619	8589
70°	7765	7444	7444
75°	6684	6589	6495
80°	5892	5964	5823
85°	4610	5034	5034



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	284.9	3.7
10°-20°	813.5	10.5
20°-30°	1218.6	15.8
30°-40°	1429.3	18.5
40°-50°	1433.8	18.6
50°-60°	1223.1	15.9
60°-70°	797.7	10.3
70°-80°	400.2	5.2
80°-90°	110.8	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°	2317.0	30.0
0°-40°	3746.3	48.6
0°-60°	6403.2	83.0
0°-90°	7711.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7711.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3013	3013	3013	3013	3013	
5°	3024	2995	3005	2995	2995	287
15°	2908	2879	2892	2881	2876	820
25°	2678	2647	2659	2635	2633	1231
35°	2313	2290	2297	2271	2268	1445
45°	1880	1867	1867	1848	1848	1448
55°	1394	1389	1376	1368	1365	1239
65°	824	808	790	784	787	822
75°	375	375	370	367	364	407
85°	87	95	95	95	95	106
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3013.1	3013.1	3013.1	3013.1	3013.1
2.5°	3032.1	3007.3	3013.1	3008.6	2996.2
5°	3023.6	2995.2	3005.2	2994.6	2994.6
7.5°	3003.1	2972.1	2981.9	2971.3	2970.8
10°	2984.0	2953.1	2962.9	2952.3	2949.7
12.5°	2956.6	2925.6	2937.6	2924.9	2924.4
15°	2907.5	2879.1	2891.6	2880.9	2875.8
17.5°	2852.0	2821.0	2836.2	2821.3	2819.3
20°	2809.7	2778.8	2793.9	2772.8	2772.8
22.5°	2759.0	2728.1	2745.3	2717.9	2717.9
25°	2677.7	2646.7	2659.2	2635.4	2632.8
27.5°	2581.1	2550.6	2563.6	2536.7	2536.2
30°	2511.3	2482.9	2498.1	2469.0	2466.5
32.5°	2435.3	2409.0	2420.0	2390.9	2388.3
35°	2313.3	2290.1	2297.4	2271.0	2268.4
37.5°	2184.9	2161.2	2169.6	2146.9	2145.9
40°	2094.1	2078.6	2080.9	2062.3	2057.1
42.5°	2009.6	1992.0	1994.3	1975.8	1974.7
45°	1880.2	1867.3	1867.0	1848.5	1848.5
47.5°	1742.9	1733.1	1730.2	1714.9	1714.4
50°	1647.8	1640.1	1637.3	1624.0	1621.4
52.5°	1548.5	1544.9	1535.9	1524.8	1524.2
55°	1394.3	1389.1	1375.8	1367.8	1365.3
57.5°	1226.9	1216.6	1201.5	1190.0	1192.0
60°	1106.5	1096.1	1074.8	1069.5	1069.5
62.5°	990.3	977.9	956.5	949.2	953.3
65°	823.9	808.4	789.6	784.4	786.9
67.5°	672.9	658.9	638.5	638.5	636.4
70°	575.7	567.9	551.9	551.9	551.9
72.5°	489.1	485.5	473.7	473.7	471.6
75°	375.0	375.0	369.7	367.0	364.4
77.5°	281.0	282.0	279.4	276.6	272.0
80°	221.8	227.0	224.5	221.8	219.2
82.5°	166.9	172.1	171.6	166.9	166.4
85°	87.1	94.9	95.1	95.1	95.1
87.5°	23.2	31.5	33.8	33.8	35.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)