

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: P518611

Luminaire Tested: **SQ4-BB-0U-075D-830-1D-UNV-STD-W-12**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P518611
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2009-966-12)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-BB-0U-075D-830-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH BLACK BAFFLE
DOWNLIGHT 750 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

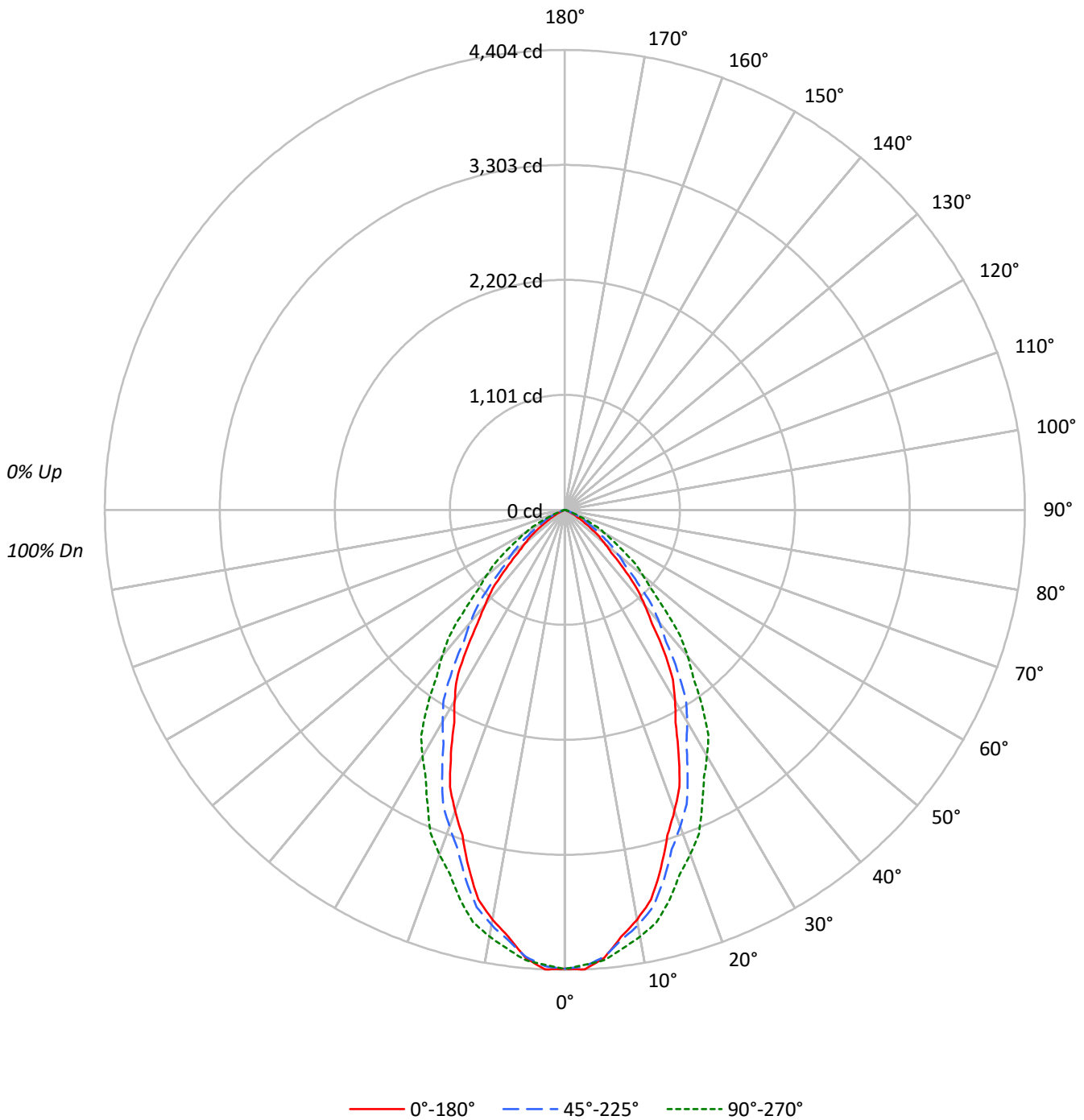
Lumens per Lamp: N/A
Luminaire Lumens: 5241.9 lumens
Efficiency: N/A
Efficacy: 66.0 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.97 / 0.97
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Direct

Input Watts (W): 79.4
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	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91				91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82				82
3	99	91	85	81	97	90	84	80	87	82	79	85	81	77	82	79	76	74				74
4	93	84	77	72	91	83	76	72	80	75	71	78	74	70	76	72	69	67				67
5	87	77	70	65	85	76	70	65	74	68	64	72	67	64	71	66	63	61				61
6	82	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	58	56				56
7	77	66	59	54	75	65	59	54	64	58	53	62	57	53	61	56	53	51				51
8	72	61	54	50	71	61	54	49	59	53	49	58	53	49	57	52	49	47				47
9	68	57	50	46	67	57	50	46	56	50	46	55	49	45	54	49	45	44				44
10	65	54	47	42	63	53	47	42	52	46	42	51	46	42	51	46	42	41				41

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13514	13514	13514
5°	13296	13264	13362
10°	12441	12607	12959
15°	11310	11669	12319
20°	10040	10562	11487
25°	8743	9436	10554
30°	7489	8312	9671
35°	6209	7056	8604
40°	4771	5641	7331
45°	3449	4272	5899
50°	2350	3184	4679
55°	1528	2302	3636
60°	876	1621	2628
65°	232	990	1330
70°	115	306	382
75°	51	25	0
80°	37	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	401.0	7.7
10°-20°	1025.5	19.6
20°-30°	1283.9	24.5
30°-40°	1185.9	22.6
40°-50°	796.8	15.2
50°-60°	411.6	7.9
60°-70°	128.9	2.5
70°-80°	8.2	0.2
80°-90°	0.1	0.0
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°	2710.4	51.7
0°-40°	3896.3	74.3
0°-60°	5104.7	97.4
0°-90°	5241.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5241.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4394	4394	4394	4394	4394	
5°	4307	4263	4296	4312	4328	399
15°	3552	3540	3665	3788	3869	989
25°	2577	2597	2781	2971	3110	1181
35°	1654	1696	1879	2100	2292	1025
45°	793	841	982	1173	1356	623
55°	285	333	429	551	678	266
65°	32	61	136	164	183	54
75°	4	4	2	0	0	6
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4394.2	4394.2	4394.2	4394.2	4394.2
2.5°	4404.4	4362.8	4373.8	4373.5	4361.9
5°	4307.0	4263.4	4296.4	4311.7	4328.3
7.5°	4125.1	4091.0	4154.4	4202.0	4236.5
10°	3983.9	3954.8	4037.1	4101.9	4149.7
12.5°	3820.6	3798.2	3897.6	3986.6	4047.7
15°	3552.4	3539.9	3665.0	3788.0	3869.1
17.5°	3264.9	3264.5	3407.4	3560.1	3657.8
20°	3067.7	3073.9	3227.1	3395.5	3509.8
22.5°	2870.4	2884.9	3048.5	3224.1	3355.1
25°	2576.6	2597.4	2780.7	2970.9	3110.2
27.5°	2294.3	2324.6	2517.5	2715.2	2884.8
30°	2108.9	2144.2	2340.6	2548.7	2723.3
32.5°	1926.9	1968.9	2160.3	2380.4	2558.3
35°	1653.9	1695.5	1879.3	2100.5	2291.7
37.5°	1372.0	1412.8	1592.3	1810.0	2016.6
40°	1188.4	1234.1	1405.2	1616.2	1826.1
42.5°	1021.7	1067.4	1228.3	1435.7	1634.0
45°	793.0	840.8	982.2	1173.4	1356.3
47.5°	603.3	655.3	779.4	952.4	1119.1
50°	491.1	543.0	665.4	817.9	977.9
52.5°	400.9	451.2	561.7	705.3	852.1
55°	284.9	332.7	429.4	551.4	678.2
57.5°	196.9	238.0	324.8	426.6	525.9
60°	142.4	181.9	263.6	346.2	427.3
62.5°	94.8	131.0	210.9	274.2	328.7
65°	31.9	61.0	136.1	164.1	182.8
67.5°	16.2	19.5	71.4	75.4	81.6
70°	12.8	12.8	34.0	36.3	42.5
72.5°	9.4	9.4	13.6	17.5	18.7
75°	4.3	4.3	2.1	0.0	0.0
77.5°	2.1	2.1	1.7	0.0	0.0
80°	2.1	2.1	0.0	0.0	0.0
82.5°	0.4	0.4	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)