

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: P518630

Luminaire Tested: **SQ4-BB-0U-075D-935-1D-UNV-STD-W-8**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P518630
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-935-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH BLACK BAFFLE
DOWNLIGHT 750 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

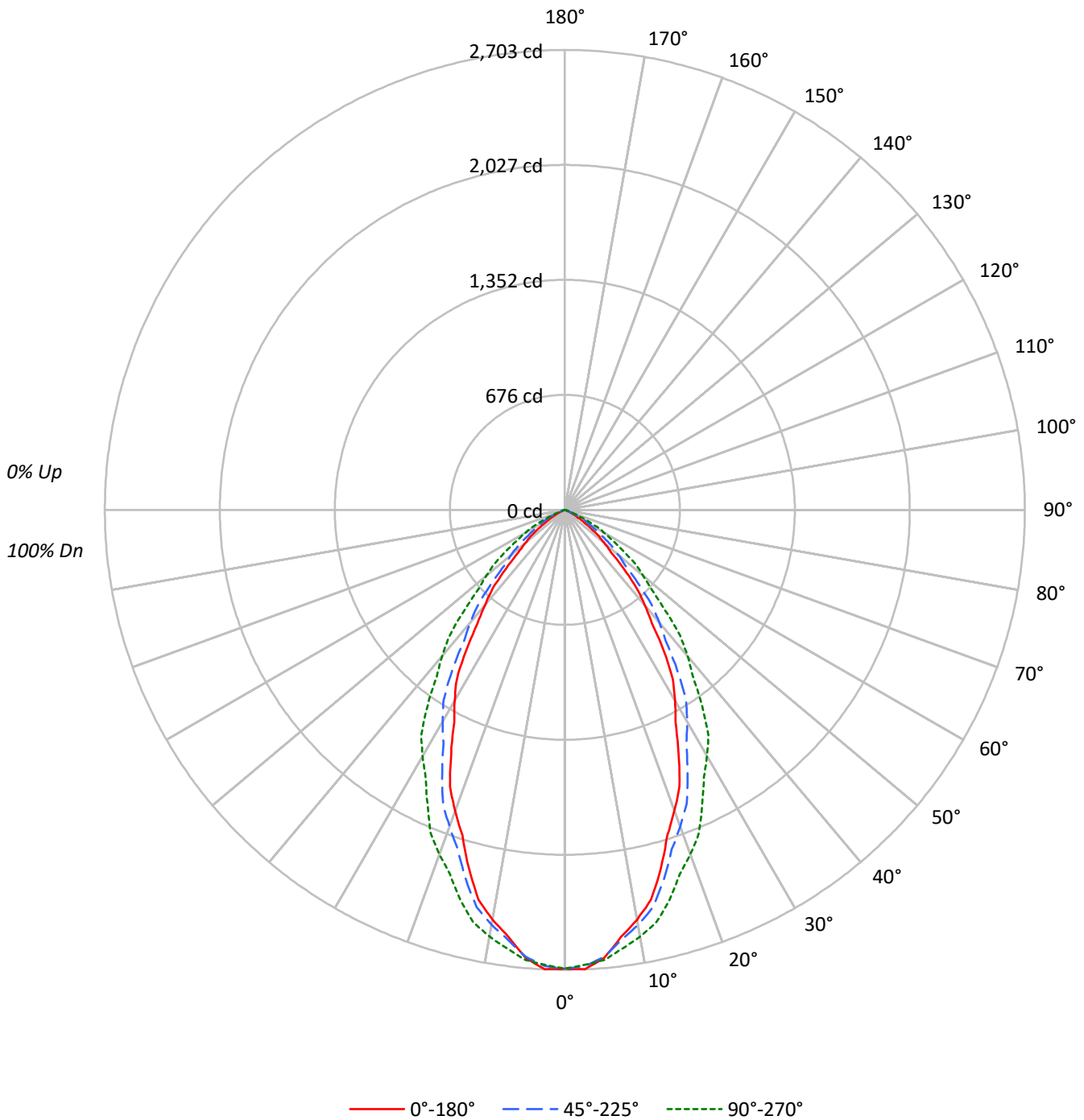
Lumens per Lamp: N/A
Luminaire Lumens: 3216.9 lumens
Efficiency: N/A
Efficacy: 59.1 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.97 / 0.97
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Direct

Input Watts (W): 54.4
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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82
3	99	91	85	81	97	90	84	80	87	82	79	85	81	77	82	79	76	74
4	93	84	77	72	91	83	76	72	80	75	71	78	74	70	76	72	69	67
5	87	77	70	65	85	76	70	65	74	68	64	72	67	64	71	66	63	61
6	82	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	58	56
7	77	66	59	54	75	65	59	54	64	58	53	62	57	53	61	56	53	51
8	72	61	54	50	71	61	54	49	59	53	49	58	53	49	57	52	49	47
9	68	57	50	46	67	57	50	46	56	50	46	55	49	45	54	49	45	44
10	65	54	47	42	63	53	47	42	52	46	42	51	46	42	51	46	42	41

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12440	12440	12440
5°	12240	12210	12301
10°	11453	11605	11929
15°	10412	10742	11340
20°	9242	9723	10574
25°	8048	8686	9715
30°	6894	7651	8903
35°	5716	6495	7920
40°	4392	5193	6749
45°	3175	3932	5431
50°	2163	2931	4307
55°	1406	2119	3347
60°	806	1493	2419
65°	214	911	1225
70°	105	282	352
75°	46	23	0
80°	35	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	246.1	7.7
10°-20°	629.4	19.6
20°-30°	787.9	24.5
30°-40°	727.8	22.6
40°-50°	489.0	15.2
50°-60°	252.6	7.9
60°-70°	79.1	2.5
70°-80°	5.0	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°	1663.4	51.7
0°-40°	2391.1	74.3
0°-60°	3132.7	97.4
0°-90°	3216.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3216.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2697	2697	2697	2697	2697	
5°	2643	2616	2637	2646	2656	245
15°	2180	2172	2249	2325	2374	607
25°	1581	1594	1706	1823	1909	725
35°	1015	1040	1153	1289	1406	629
45°	487	516	603	720	832	382
55°	175	204	264	338	416	163
65°	20	37	84	101	112	33
75°	3	3	1	0	0	4
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°	2696.7	2696.7	2696.7	2696.7	2696.7
2.5°	2703.0	2677.5	2684.2	2684.0	2676.9
5°	2643.2	2616.4	2636.7	2646.1	2656.3
7.5°	2531.5	2510.6	2549.5	2578.7	2599.9
10°	2444.9	2427.0	2477.5	2517.3	2546.7
12.5°	2344.7	2330.9	2391.9	2446.5	2484.0
15°	2180.1	2172.4	2249.2	2324.7	2374.5
17.5°	2003.7	2003.4	2091.1	2184.8	2244.8
20°	1882.6	1886.4	1980.5	2083.8	2154.0
22.5°	1761.5	1770.5	1870.9	1978.6	2059.0
25°	1581.2	1594.0	1706.5	1823.2	1908.7
27.5°	1408.0	1426.6	1545.0	1666.3	1770.4
30°	1294.2	1315.9	1436.4	1564.1	1671.3
32.5°	1182.5	1208.3	1325.8	1460.8	1570.0
35°	1015.0	1040.5	1153.3	1289.0	1406.4
37.5°	842.0	867.0	977.2	1110.8	1237.6
40°	729.3	757.4	862.4	991.8	1120.7
42.5°	627.0	655.1	753.8	881.1	1002.8
45°	486.6	516.0	602.7	720.1	832.4
47.5°	370.3	402.1	478.3	584.5	686.8
50°	301.4	333.3	408.4	501.9	600.1
52.5°	246.1	276.9	344.7	432.8	522.9
55°	174.8	204.2	263.5	338.4	416.2
57.5°	120.8	146.1	199.3	261.8	322.8
60°	87.4	111.6	161.8	212.5	262.2
62.5°	58.2	80.4	129.4	168.3	201.7
65°	19.6	37.4	83.5	100.7	112.2
67.5°	9.9	12.0	43.8	46.3	50.1
70°	7.8	7.8	20.9	22.3	26.1
72.5°	5.7	5.7	8.3	10.7	11.5
75°	2.6	2.6	1.3	0.0	0.0
77.5°	1.3	1.3	1.0	0.0	0.0
80°	1.3	1.3	0.0	0.0	0.0
82.5°	0.3	0.3	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)