

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: P521027

Luminaire Tested: **SQ4-BB-025U-125D-93050-1D-UNV-STD-W-4 (5000K)**

Issue Date: 5/5/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P521027  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-50,  
Test Lab: INNOVATION CENTER  
Issue Date: 5/5/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-BB-025U-125D-93050-1D-UNV-STD-W-4 (5000K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH BLACK BAFFLE  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

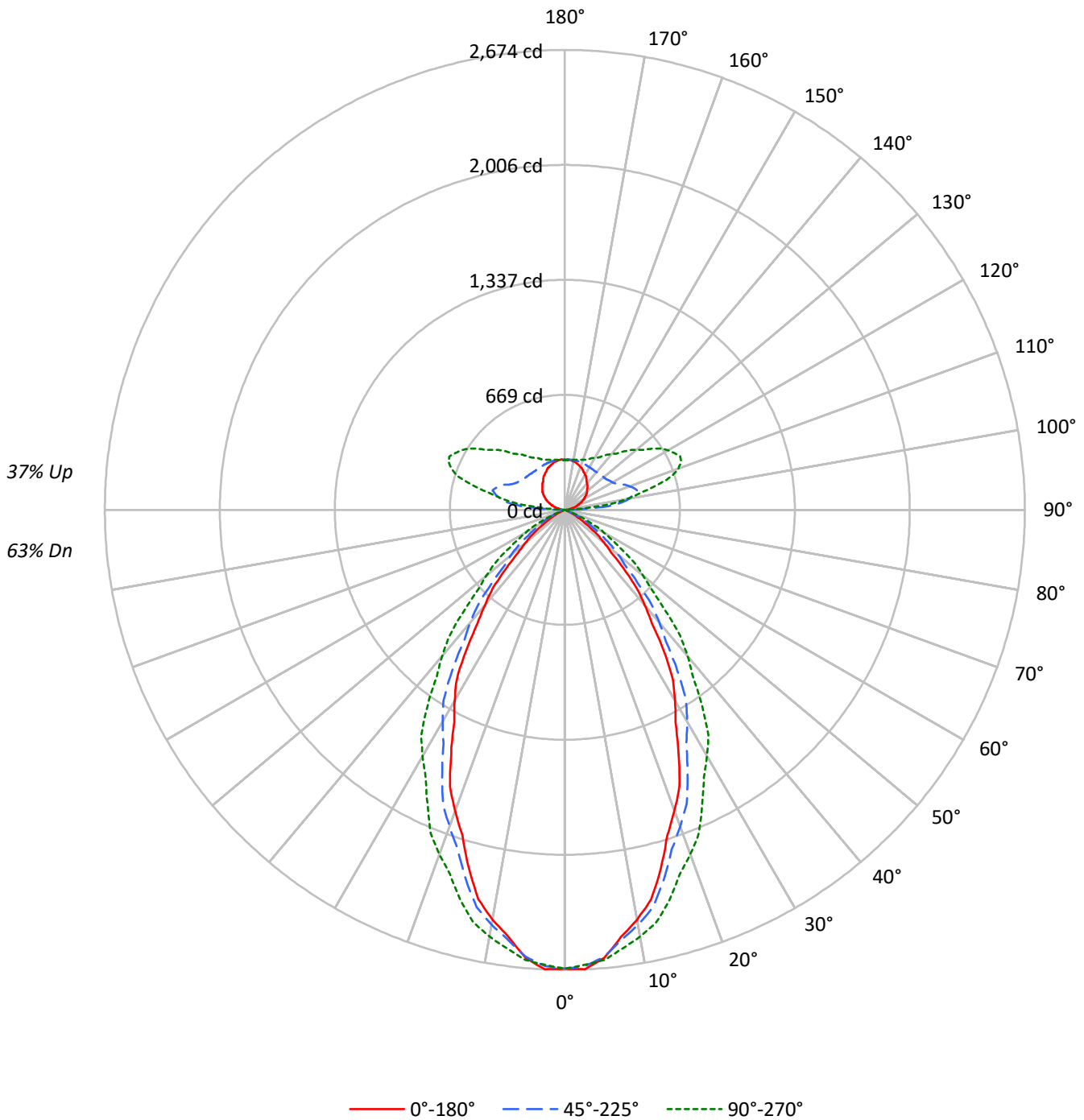
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5063.4 lumens  
Efficiency: N/A  
Efficacy: 72.5 lumens/watt  
Spacing Criteria (0/90/45): 0.85 / 0.97 / 0.97  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 69.8  
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	110	110	110	110	103	103	103	103	90	90	90	79	79	79	68	68	68	63				
1	103	99	96	93	97	94	91	88	83	81	79	73	71	70	63	63	62	57				
2	96	89	84	80	90	85	80	76	75	72	69	67	64	62	59	57	56	52				
3	89	81	75	70	83	77	71	67	69	64	61	61	58	55	54	52	50	47				
4	83	73	66	61	78	70	64	59	63	58	54	56	53	50	50	48	45	42				
5	77	67	60	54	72	63	57	52	57	52	49	52	48	45	46	44	41	38				
6	72	61	54	49	68	58	52	47	53	48	44	48	44	41	43	40	38	35				
7	67	56	49	44	63	53	47	43	49	44	40	44	40	37	40	37	34	32				
8	63	52	45	40	59	49	43	39	45	40	36	41	37	34	37	34	32	30				
9	59	48	41	36	56	46	40	35	42	37	33	38	34	31	35	32	29	27				
10	55	44	38	33	53	43	37	32	39	34	31	36	32	29	33	30	27	25				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	24614	24614	24614
5°	24217	24158	24336
10°	22660	22961	23602
15°	20600	21253	22437
20°	18286	19236	20922
25°	15925	17186	19222
30°	13640	15139	17613
35°	11309	12850	15670
40°	8690	10275	13353
45°	6281	7780	10744
50°	4279	5799	8522
55°	2781	4193	6622
60°	1596	2952	4787
65°	424	1803	2423
70°	208	558	696
75°	93	46	0
80°	69	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	243.5	4.8
10°-20°	622.6	12.3
20°-30°	779.4	15.4
30°-40°	719.9	14.2
40°-50°	483.8	9.6
50°-60°	249.9	4.9
60°-70°	78.3	1.5
70°-80°	5.0	0.1
80°-90°	0.1	0.0
90°-100°	149.8	3.0
100°-110°	361.9	7.1
110°-120°	386.0	7.6
120°-130°	312.7	6.2
130°-140°	242.1	4.8
140°-150°	184.7	3.6
150°-160°	133.7	2.6
160°-170°	82.3	1.6
170°-180°	27.9	0.6
0°-30°	1645.5	32.5
0°-40°	2365.5	46.7
0°-60°	3099.1	61.2
0°-90°	3182.4	62.9
90°-120°	897.7	17.7
90°-150°	1637.1	32.3
90°-180°	1881.0	37.1
0°-180°	5063.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2668	2668	2668	2668	2668	
5°	2615	2588	2608	2618	2628	242
15°	2157	2149	2225	2300	2349	601
25°	1564	1577	1688	1804	1888	717
35°	1004	1029	1141	1275	1391	622
45°	481	510	596	712	823	378
55°	173	202	261	335	412	161
65°	19	37	83	100	111	33
75°	3	3	1	0	0	4
85°	0	0	0	0	0	0
90°	0	0	0	0	0	1
95°	15	75	257	167	117	17
105°	58	100	435	563	556	61
115°	106	135	350	663	739	105
125°	151	174	303	527	619	135
135°	185	207	291	416	478	143
145°	219	235	286	353	381	137
155°	251	262	289	313	324	116
165°	278	282	293	297	302	78
175°	294	292	294	291	290	28
180°	290	290	290	290	290	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2667.8	2667.8	2667.8	2667.8	2667.8
2.5°	2674.0	2648.7	2655.4	2655.2	2648.1
5°	2614.8	2588.3	2608.4	2617.7	2627.7
7.5°	2504.4	2483.7	2522.2	2551.0	2572.0
10°	2418.7	2401.0	2450.9	2490.3	2519.3
12.5°	2319.5	2305.9	2366.3	2420.3	2457.4
15°	2156.7	2149.1	2225.1	2299.8	2349.0
17.5°	1982.2	1981.9	2068.6	2161.4	2220.7
20°	1862.4	1866.2	1959.2	2061.4	2130.9
22.5°	1742.6	1751.5	1850.8	1957.4	2036.9
25°	1564.3	1576.9	1688.2	1803.7	1888.2
27.5°	1392.9	1411.3	1528.4	1648.4	1751.4
30°	1280.3	1301.8	1421.0	1547.3	1653.3
32.5°	1169.8	1195.3	1311.6	1445.1	1553.2
35°	1004.1	1029.4	1140.9	1275.2	1391.3
37.5°	833.0	857.7	966.7	1098.9	1224.3
40°	721.5	749.2	853.1	981.2	1108.7
42.5°	620.3	648.0	745.7	871.6	992.0
45°	481.4	510.4	596.3	712.4	823.4
47.5°	366.3	397.8	473.1	578.2	679.4
50°	298.1	329.7	404.0	496.5	593.7
52.5°	243.4	274.0	341.0	428.2	517.3
55°	172.9	202.0	260.7	334.7	411.7
57.5°	119.5	144.5	197.2	259.0	319.3
60°	86.5	110.5	160.0	210.2	259.4
62.5°	57.6	79.5	128.0	166.5	199.5
65°	19.4	37.0	82.6	99.6	111.0
67.5°	9.8	11.8	43.4	45.8	49.6
70°	7.7	7.7	20.7	22.0	25.8
72.5°	5.7	5.7	8.3	10.6	11.4
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
92.5°	4.9	40.5	95.5	46.4	31.5
95°	14.8	74.9	256.6	166.8	116.9
97.5°	26.2	83.0	337.9	325.6	279.5
100°	35.1	88.0	382.7	404.0	366.1
102.5°	43.4	92.5	412.2	469.3	446.8
105°	57.8	100.0	435.0	562.8	555.6
107.5°	72.0	108.7	421.6	637.8	654.8
110°	81.8	116.1	399.9	670.2	702.1

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	91.7	123.6	380.7	678.1	732.6
115°	105.8	135.3	349.5	662.6	739.0
117.5°	119.9	147.7	331.2	626.9	716.4
120°	129.2	155.1	319.3	599.0	692.8
122.5°	139.1	163.0	312.0	570.4	662.8
125°	150.7	173.6	303.3	526.9	619.0
127.5°	162.3	183.9	297.3	490.1	571.0
130°	169.2	190.3	295.3	464.5	543.9
132.5°	175.6	197.6	292.4	446.0	513.4
135°	185.2	206.9	291.0	415.5	478.1
137.5°	194.3	216.1	286.7	394.9	442.0
140°	201.2	221.1	286.7	380.0	423.3
142.5°	208.1	227.9	284.3	367.1	403.6
145°	219.0	235.3	285.5	353.2	380.9
147.5°	229.3	245.0	284.8	337.2	360.1
150°	235.7	249.5	286.7	330.2	348.3
152.5°	242.5	255.9	286.2	322.8	338.9
155°	251.0	261.9	289.2	312.8	324.3
157.5°	261.3	270.5	288.6	309.0	315.8
160°	265.2	273.0	291.0	304.1	308.9
162.5°	271.6	278.4	290.0	302.5	305.4
165°	277.5	281.7	292.9	297.3	301.5
167.5°	284.8	287.5	292.1	296.9	297.1
170°	286.7	288.5	294.1	293.6	296.6
172.5°	290.2	291.5	292.6	293.9	292.1
175°	293.5	292.3	293.5	291.0	290.4
177.5°	292.9	292.9	291.9	290.9	288.5
180°	290.4	290.4	290.4	290.4	290.4

(END OF REPORT)