

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: P518387

Luminaire Tested: **SQ4-BB-025U-125D-935-1D-UNV-STD-W-12**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P518387  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-025U-125D-935-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH BLACK BAFFLE  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

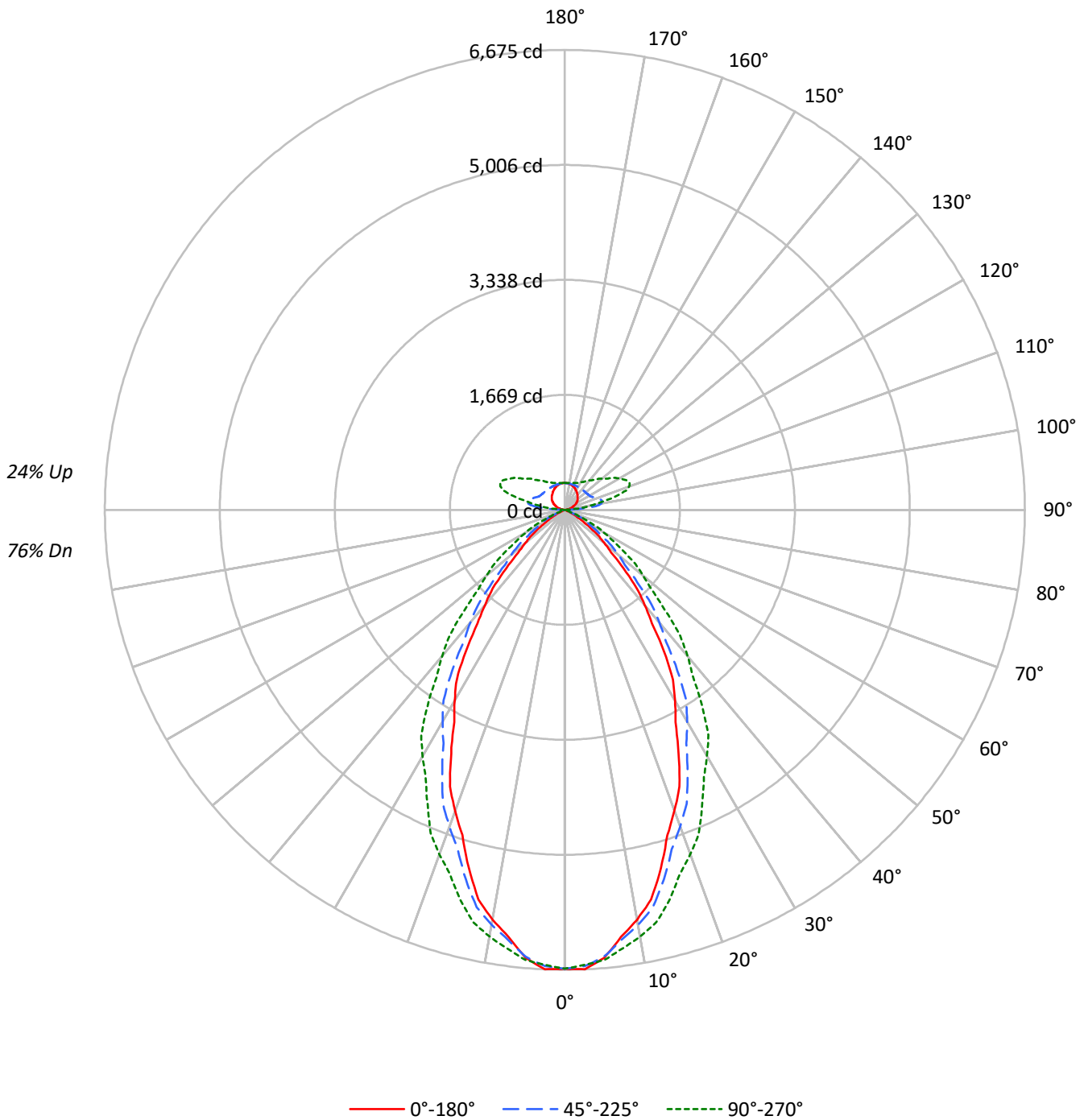
Lumens per Lamp: N/A  
Luminaire Lumens: 10464.1 lumens  
Efficiency: N/A  
Efficacy: 67.0 lumens/watt  
Spacing Criteria (0/90/45): 0.85 / 0.97 / 0.97  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 156.2  
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	113	113	113	113	108	108	108	108	98	98	98	88	88	88	80	80	80	76
1	106	103	100	97	101	98	96	93	90	88	86	82	81	79	75	74	73	69
2	99	93	88	84	95	89	85	81	82	79	76	75	73	71	69	67	66	63
3	92	84	78	74	88	81	76	71	75	71	67	69	66	63	64	62	59	57
4	86	77	70	65	82	74	68	63	69	64	60	64	60	57	59	56	54	51
5	80	70	63	58	77	68	62	57	63	58	54	59	55	51	55	52	49	46
6	75	65	57	52	72	62	56	51	58	53	49	55	50	47	51	47	45	42
7	70	59	52	47	67	58	51	46	54	49	45	51	46	43	48	44	41	39
8	66	55	48	43	63	53	47	42	50	45	41	47	43	39	44	41	38	36
9	62	51	44	40	60	50	43	39	47	41	38	44	40	36	42	38	35	33
10	59	48	41	37	56	46	40	36	44	38	35	41	37	34	39	35	32	31

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

	0°	45°	90°
0°	20481	20481	20481
5°	20151	20101	20250
10°	18855	19106	19640
15°	17141	17685	18669
20°	15215	16006	17409
25°	13250	14300	15994
30°	11350	12597	14656
35°	9411	10693	13039
40°	7230	8550	11111
45°	5227	6474	8940
50°	3561	4825	7091
55°	2315	3489	5511
60°	1328	2457	3983
65°	351	1501	2016
70°	174	463	579
75°	76	38	0
80°	57	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	607.8	5.8
10°-20°	1554.2	14.9
20°-30°	1945.7	18.6
30°-40°	1797.2	17.2
40°-50°	1207.6	11.5
50°-60°	623.8	6.0
60°-70°	195.4	1.9
70°-80°	12.3	0.1
80°-90°	2.3	0.0
90°-100°	189.3	1.8
100°-110°	497.7	4.8
110°-120°	516.1	4.9
120°-130°	414.0	4.0
130°-140°	324.8	3.1
140°-150°	249.3	2.4
150°-160°	179.6	1.7
160°-170°	109.9	1.0
170°-180°	37.1	0.4
0°-30°	4107.7	39.3
0°-40°	5904.9	56.4
0°-60°	7736.2	73.9
0°-90°	7946.3	75.9
90°-120°	1203.2	11.5
90°-150°	2191.3	20.9
90°-180°	2518.0	24.1
0°-180°	10464.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6660	6660	6660	6660	6660	
5°	6527	6461	6511	6534	6560	605
15°	5384	5365	5554	5741	5864	1499
25°	3905	3936	4214	4502	4714	1790
35°	2507	2570	2848	3183	3473	1553
45°	1202	1274	1488	1778	2056	944
55°	432	504	651	836	1028	403
65°	48	92	206	249	277	82
75°	6	6	3	0	0	9
85°	0	0	0	0	0	1
90°	2	7	20	10	10	2
95°	25	98	326	168	114	28
105°	90	136	550	835	779	95
115°	159	194	441	879	1004	157
125°	222	248	401	678	799	197
135°	264	291	388	547	620	204
145°	306	326	384	466	503	192
155°	346	356	384	421	433	159
165°	374	378	384	398	403	105
175°	388	388	386	391	391	37
180°	388	388	388	388	388	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6659.5	6659.5	6659.5	6659.5	6659.5
2.5°	6674.9	6611.9	6628.5	6628.1	6610.5
5°	6527.4	6461.2	6511.3	6534.4	6559.6
7.5°	6251.6	6199.9	6296.0	6368.1	6420.4
10°	6037.7	5993.6	6118.2	6216.5	6289.0
12.5°	5790.2	5756.2	5906.8	6041.7	6134.3
15°	5383.6	5364.7	5554.4	5740.8	5863.7
17.5°	4948.0	4947.4	5163.9	5395.4	5543.4
20°	4649.1	4658.5	4890.7	5145.9	5319.2
22.5°	4350.1	4372.1	4620.1	4886.2	5084.6
25°	3904.8	3936.3	4214.1	4502.4	4713.5
27.5°	3477.0	3523.0	3815.3	4114.9	4372.0
30°	3196.0	3249.6	3547.2	3862.5	4127.1
32.5°	2920.2	2983.9	3274.0	3607.5	3877.1
35°	2506.6	2569.6	2848.1	3183.3	3473.1
37.5°	2079.4	2141.1	2413.1	2743.1	3056.2
40°	1801.0	1870.3	2129.6	2449.4	2767.5
42.5°	1548.4	1617.7	1861.6	2175.7	2476.3
45°	1201.7	1274.2	1488.5	1778.3	2055.5
47.5°	914.3	993.1	1181.1	1443.3	1696.0
50°	744.2	823.0	1008.4	1239.5	1482.0
52.5°	607.6	683.9	851.2	1068.9	1291.3
55°	431.7	504.2	650.8	835.6	1027.8
57.5°	298.3	360.7	492.3	646.5	797.1
60°	215.9	275.7	399.5	524.7	647.6
62.5°	143.7	198.5	319.6	415.6	498.1
65°	48.3	92.4	206.2	248.7	277.1
67.5°	24.5	29.5	108.3	114.3	123.7
70°	19.3	19.3	51.5	55.0	64.4
72.5°	14.2	14.2	20.6	26.5	28.4
75°	6.4	6.4	3.2	0.0	0.0
77.5°	3.2	3.2	2.6	0.0	0.0
80°	3.2	3.2	0.0	0.0	0.0
82.5°	0.6	0.6	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.5	1.5	4.0	2.0	2.0
90°	2.5	7.4	19.9	10.0	10.0
92.5°	10.5	50.4	111.6	49.4	31.9
95°	24.9	97.9	326.2	168.1	114.5
97.5°	43.3	107.6	488.1	388.1	285.9
100°	57.3	115.7	537.9	545.1	423.3
102.5°	69.2	123.8	551.8	678.9	574.7
105°	89.6	135.9	550.3	835.4	779.4
107.5°	110.6	153.4	518.9	916.7	930.3
110°	124.5	163.5	493.0	937.6	996.1

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	138.5	175.5	469.1	924.4	1014.0
115°	159.4	193.5	440.8	879.3	1003.5
117.5°	179.8	211.0	421.3	816.9	954.7
120°	191.7	221.0	413.4	775.0	908.9
122.5°	203.7	232.9	407.4	733.1	865.1
125°	221.6	248.4	400.9	677.6	799.3
127.5°	236.1	263.3	395.4	632.8	735.6
130°	244.0	273.2	393.4	604.8	699.7
132.5°	252.0	281.2	391.4	580.6	665.9
135°	264.0	290.7	388.5	547.0	620.0
137.5°	276.4	302.7	388.0	521.8	581.7
140°	286.4	310.7	386.0	501.8	557.8
142.5°	294.3	316.7	386.0	487.7	535.9
145°	306.3	325.8	383.5	466.5	503.0
147.5°	318.2	337.2	383.5	448.9	479.1
150°	326.2	343.3	383.5	438.8	463.2
152.5°	334.2	347.3	383.5	430.7	449.2
155°	346.1	355.9	383.5	421.1	433.3
157.5°	355.1	364.3	383.5	412.6	421.3
160°	361.1	368.4	383.5	408.5	413.4
162.5°	367.0	372.4	383.5	404.5	409.4
165°	373.5	378.4	383.5	398.5	403.4
167.5°	379.5	381.9	386.0	396.0	397.9
170°	383.5	385.9	386.0	395.9	395.9
172.5°	385.5	386.0	386.0	393.9	391.9
175°	388.5	388.5	386.0	390.9	390.9
177.5°	388.5	388.5	386.5	390.4	388.5
180°	388.5	388.5	388.5	388.5	388.5

(END OF REPORT)