

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: P521754

Luminaire Tested: **SQ4-WB-025U-125D-93050-1D-UNV-STD-W-4 (4500K)**

Issue Date: 5/5/2021

Test Information

Test Method: LM-79-08
Report Number: P521754
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-WB-025U-125D-93050-1D-UNV-STD-W-4 (4500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

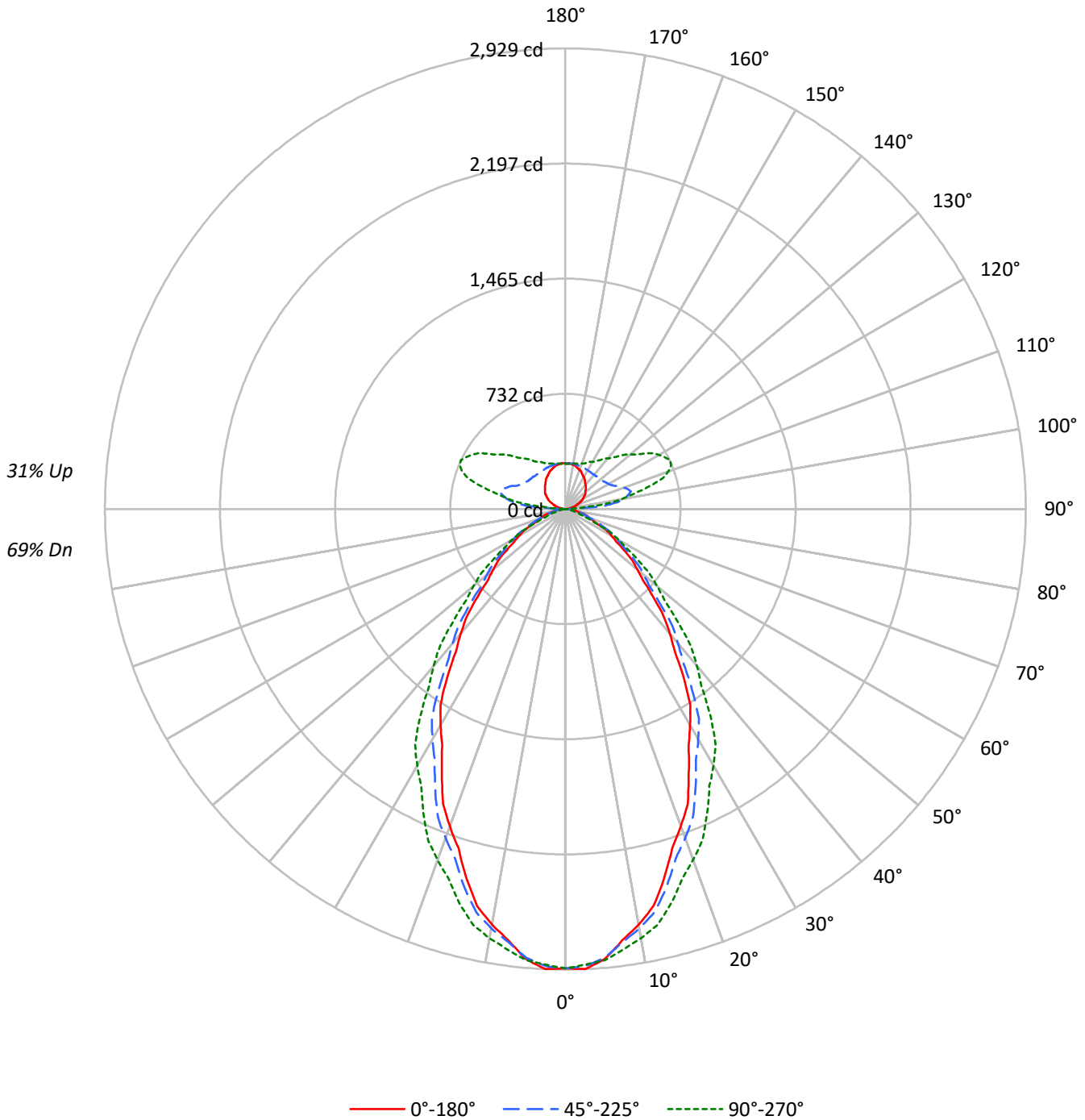
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6125.3 lumens
Efficiency: N/A
Efficacy: 87.8 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
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	0
RCR																		
0	112	112	112	112	106	106	106	106	94	94	94	84	84	84	74	74	74	69
1	104	100	96	93	98	95	92	89	85	83	81	76	74	73	68	67	66	62
2	96	89	84	79	91	85	80	76	76	73	70	69	66	64	62	60	58	54
3	89	80	73	68	84	76	70	65	69	64	61	62	59	56	56	54	51	48
4	82	72	65	59	78	69	62	57	63	57	53	57	53	49	52	48	46	43
5	76	65	58	52	72	62	56	51	57	52	47	52	48	44	47	44	41	38
6	71	59	52	46	67	57	50	45	52	47	42	48	43	40	44	40	37	35
7	66	54	47	42	63	52	45	41	48	42	38	44	39	36	40	37	34	32
8	62	50	43	38	59	48	41	37	44	39	35	41	36	33	38	34	31	29
9	58	46	39	34	55	44	38	33	41	36	32	38	33	30	35	31	28	26
10	54	43	36	31	52	41	35	31	38	33	29	36	31	28	33	29	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	26954	26954	26954
5°	26617	26523	26677
10°	25148	25377	25965
15°	23215	23754	24819
20°	21082	21874	23322
25°	18909	19940	21728
30°	16907	18013	20075
35°	14785	15853	18120
40°	12444	13433	15686
45°	10270	11156	13096
50°	8575	9347	10911
55°	7279	8022	9011
60°	6220	6955	7191
65°	4953	5849	4646
70°	4392	4564	2835
75°	4067	3700	1736
80°	3746	3406	1498
85°	3387	3123	1217



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	268.0	4.4
10°-20°	697.0	11.4
20°-30°	902.8	14.7
30°-40°	884.1	14.4
40°-50°	676.7	11.0
50°-60°	450.9	7.4
60°-70°	246.1	4.0
70°-80°	102.5	1.7
80°-90°	29.0	0.5
90°-100°	148.7	2.4
100°-110°	359.5	5.9
110°-120°	383.4	6.3
120°-130°	310.5	5.1
130°-140°	240.4	3.9
140°-150°	183.4	3.0
150°-160°	132.8	2.2
160°-170°	81.8	1.3
170°-180°	27.7	0.5
0°-30°	1867.8	30.5
0°-40°	2751.8	44.9
0°-60°	3879.5	63.3
0°-90°	4257.1	69.5
90°-120°	891.6	14.6
90°-150°	1626.0	26.5
90°-180°	1868.0	30.5
0°-180°	6125.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2922	2922	2922	2922	2922	
5°	2874	2845	2864	2870	2880	267
15°	2430	2422	2487	2554	2598	679
25°	1858	1862	1959	2044	2134	854
35°	1313	1319	1408	1502	1609	816
45°	787	802	855	920	1004	614
55°	452	471	499	518	560	410
65°	227	246	268	234	213	236
75°	114	114	104	71	49	122
85°	32	32	30	19	12	35
90°	0	0	0	0	0	2
95°	15	74	255	166	116	16
105°	57	99	432	559	552	61
115°	105	134	347	658	734	104
125°	150	172	301	523	615	134
135°	184	206	289	413	475	142
145°	218	234	284	351	378	136
155°	249	260	287	311	322	115
165°	276	280	291	295	300	78
175°	292	290	292	289	288	28
180°	288	288	288	288	288	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2921.5	2921.5	2921.5	2921.5	2921.5
2.5°	2928.6	2902.6	2909.1	2909.0	2900.9
5°	2874.0	2845.2	2863.8	2870.4	2880.4
7.5°	2767.4	2745.6	2779.4	2804.5	2824.8
10°	2684.3	2665.5	2708.7	2745.2	2771.5
12.5°	2587.9	2572.1	2625.6	2674.6	2708.9
15°	2430.5	2421.7	2486.9	2554.5	2598.4
17.5°	2262.0	2257.8	2332.5	2411.5	2467.7
20°	2147.2	2145.9	2227.9	2310.2	2375.4
22.5°	2031.3	2034.1	2120.3	2205.8	2280.0
25°	1857.5	1862.5	1958.7	2044.1	2134.4
27.5°	1696.7	1699.0	1798.5	1888.6	1984.9
30°	1587.0	1593.3	1690.8	1784.1	1884.4
32.5°	1477.3	1484.5	1580.1	1676.5	1778.8
35°	1312.7	1318.9	1407.5	1502.2	1608.8
37.5°	1142.9	1151.5	1230.1	1319.7	1424.4
40°	1033.2	1045.7	1115.3	1199.6	1302.4
42.5°	927.6	943.1	1007.6	1087.6	1180.4
45°	787.1	802.1	855.0	919.8	1003.7
47.5°	666.1	683.4	724.0	779.7	851.4
50°	597.4	613.7	651.2	692.5	760.2
52.5°	536.9	553.2	586.6	618.4	676.1
55°	452.5	471.3	498.7	517.6	560.2
57.5°	383.3	401.3	423.0	431.6	457.4
60°	337.1	357.2	376.9	375.9	389.7
62.5°	295.1	312.1	331.8	318.2	318.9
65°	226.9	245.7	267.9	234.1	212.8
67.5°	183.3	187.3	210.2	163.3	137.9
70°	162.8	162.8	169.2	126.4	105.1
72.5°	143.3	143.3	137.4	102.8	80.5
75°	114.1	114.1	103.8	71.3	48.7
77.5°	87.9	86.9	79.5	53.2	35.4
80°	70.5	70.5	64.1	42.0	28.2
82.5°	55.1	55.1	49.7	32.8	21.0
85°	32.0	32.0	29.5	19.1	11.5
87.5°	11.3	11.3	10.3	6.1	5.1
90°	0.0	0.0	0.0	0.0	0.0
92.5°	4.9	40.3	94.8	46.1	31.3
95°	14.7	74.4	254.8	165.7	116.1
97.5°	26.0	82.4	335.6	323.3	277.6
100°	34.8	87.4	380.1	401.3	363.6
102.5°	43.1	91.9	409.5	466.1	443.8
105°	57.4	99.3	432.1	559.0	551.8
107.5°	71.5	108.0	418.7	633.5	650.4
110°	81.3	115.3	397.2	665.6	697.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	<i>91.1</i>	122.7	378.2	673.5	727.6
115°	<i>105.1</i>	134.4	347.1	658.1	734.0
117.5°	<i>119.0</i>	146.7	328.9	622.7	711.6
120°	<i>128.3</i>	154.0	317.2	594.9	688.1
122.5°	<i>138.1</i>	161.9	309.8	566.5	658.3
125°	<i>149.7</i>	172.4	301.3	523.4	614.8
127.5°	<i>161.2</i>	182.6	295.3	486.8	567.1
130°	<i>168.1</i>	189.0	293.3	461.4	540.2
132.5°	<i>174.4</i>	196.3	290.4	443.0	509.9
135°	<i>183.9</i>	205.5	289.1	412.7	474.8
137.5°	<i>193.0</i>	214.6	284.8	392.2	439.0
140°	<i>199.8</i>	219.6	284.8	377.4	420.5
142.5°	<i>206.7</i>	226.4	282.3	364.6	400.9
145°	<i>217.6</i>	233.7	283.6	350.8	378.3
147.5°	<i>227.7</i>	243.4	282.8	334.9	357.6
150°	<i>234.1</i>	247.8	284.8	328.0	345.9
152.5°	<i>240.9</i>	254.2	284.3	320.6	336.6
155°	<i>249.3</i>	260.1	287.2	310.7	322.1
157.5°	<i>259.5</i>	268.7	286.6	306.9	313.6
160°	<i>263.4</i>	271.2	289.1	302.0	306.8
162.5°	<i>269.8</i>	276.6	288.1	300.5	303.4
165°	<i>275.6</i>	279.8	290.9	295.3	299.5
167.5°	<i>282.8</i>	285.6	290.2	294.9	295.1
170°	<i>284.8</i>	286.6	292.1	291.6	294.6
172.5°	<i>288.2</i>	289.5	290.7	292.0	290.2
175°	<i>291.5</i>	290.3	291.5	289.0	288.5
177.5°	<i>290.9</i>	290.9	289.9	288.9	286.5
180°	<i>288.5</i>	288.5	288.5	288.5	288.5

(END OF REPORT)