

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: P518390

Luminaire Tested: **SQ4-BB-025U-125D-935-1D-UNV-STD-W-8**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P518390
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-8
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

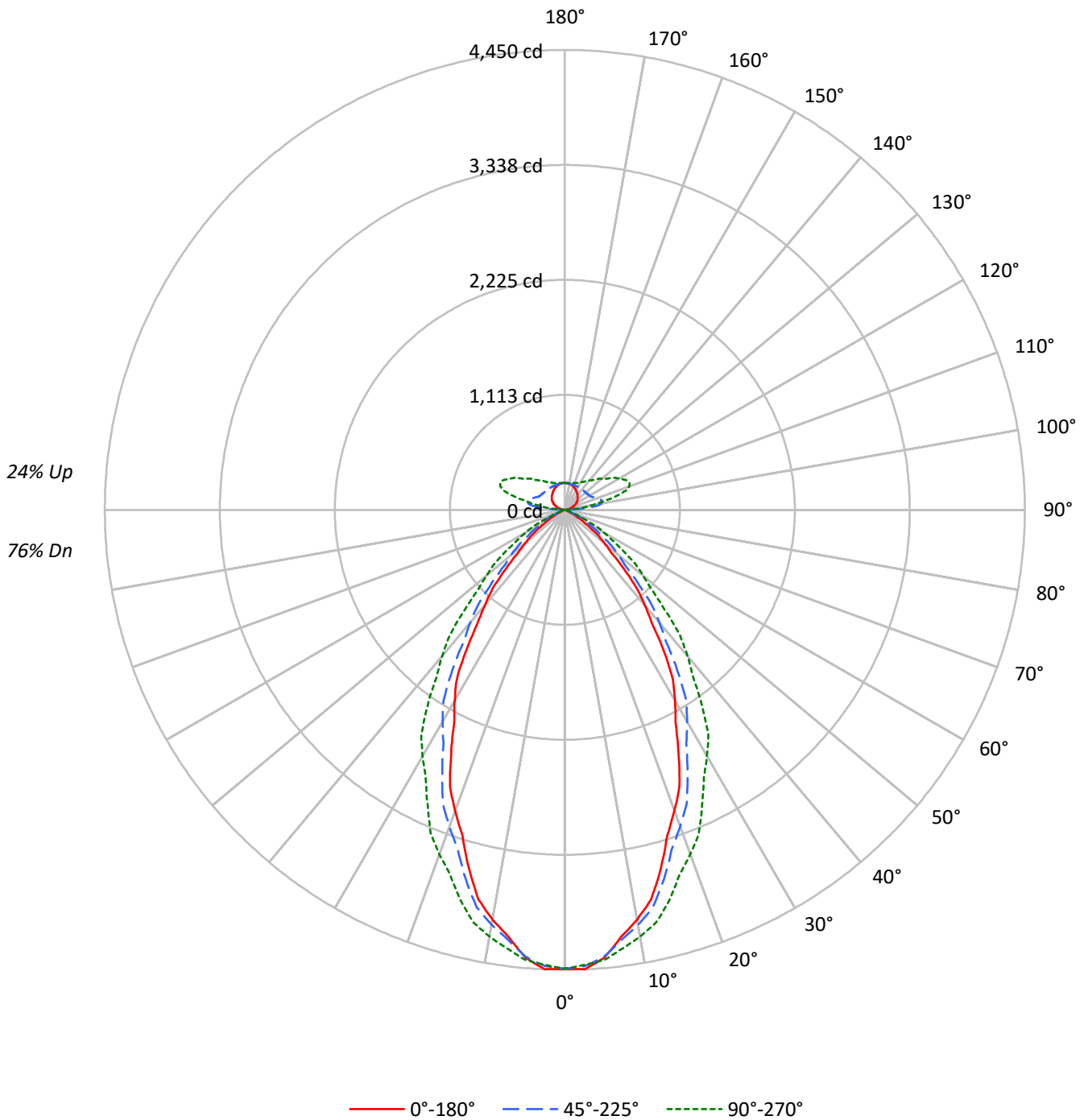
Lumens per Lamp: N/A
Luminaire Lumens: 6976.1 lumens
Efficiency: N/A
Efficacy: 68.7 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.97 / 0.97
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 101.6
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									
RC	80									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	113	113	113	113	108	108	108	108	98	98	98	88	88	88	80	80	80	80	80	80	76																
1	106	103	100	97	101	98	96	93	90	88	86	82	81	79	75	74	73	75	74	73	69																
2	99	93	88	84	95	89	85	81	82	79	76	75	73	71	69	67	66	69	67	66	63																
3	92	84	78	74	88	81	76	71	75	71	67	69	66	63	64	62	59	64	62	59	57																
4	86	77	70	65	82	74	68	63	69	64	60	64	60	57	59	56	54	59	56	54	51																
5	80	70	63	58	77	68	62	57	63	58	54	59	55	51	55	52	49	55	52	49	46																
6	75	65	57	52	72	62	56	51	58	53	49	55	50	47	51	47	45	51	47	45	42																
7	70	59	52	47	67	58	51	46	54	49	45	51	46	43	48	44	41	48	44	41	39																
8	66	55	48	43	63	53	47	42	50	45	41	47	43	39	44	41	38	44	41	38	36																
9	62	51	44	40	60	50	43	39	47	41	38	44	40	36	42	38	35	42	38	35	33																
10	59	48	41	37	56	46	40	36	44	38	35	41	37	34	39	35	32	39	35	32	31																

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	20480	20480	20480
5°	20151	20101	20251
10°	18855	19106	19639
15°	17141	17684	18669
20°	15215	16006	17408
25°	13250	14300	15994
30°	11350	12597	14656
35°	9410	10693	13039
40°	7231	8549	11111
45°	5227	6474	8940
50°	3561	4825	7091
55°	2315	3490	5511
60°	1328	2457	3983
65°	351	1501	2016
70°	174	464	580
75°	77	37	0
80°	56	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	405.2	5.8
10°-20°	1036.1	14.9
20°-30°	1297.1	18.6
30°-40°	1198.1	17.2
40°-50°	805.1	11.5
50°-60°	415.8	6.0
60°-70°	130.2	1.9
70°-80°	8.2	0.1
80°-90°	1.5	0.0
90°-100°	126.2	1.8
100°-110°	331.8	4.8
110°-120°	344.1	4.9
120°-130°	276.0	4.0
130°-140°	216.6	3.1
140°-150°	166.2	2.4
150°-160°	119.7	1.7
160°-170°	73.2	1.0
170°-180°	24.7	0.4
0°-30°	2738.4	39.3
0°-40°	3936.6	56.4
0°-60°	5157.5	73.9
0°-90°	5297.5	75.9
90°-120°	802.1	11.5
90°-150°	1460.9	20.9
90°-180°	1679.0	24.1
0°-180°	6976.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4440	4440	4440	4440	4440	
5°	4352	4308	4341	4356	4373	403
15°	3589	3576	3703	3827	3909	1000
25°	2603	2624	2809	3002	3142	1193
35°	1671	1713	1899	2122	2315	1035
45°	801	850	992	1186	1370	629
55°	288	336	434	557	685	269
65°	32	62	138	166	185	54
75°	4	4	2	0	0	6
85°	0	0	0	0	0	0
90°	2	5	13	7	7	1
95°	17	65	218	112	76	19
105°	60	91	367	557	520	63
115°	106	129	294	586	669	105
125°	148	166	267	452	533	131
135°	176	194	259	365	413	136
145°	204	217	256	311	335	128
155°	231	237	256	281	289	106
165°	249	252	256	266	269	70
175°	259	259	257	261	261	25
180°	259	259	259	259	259	



TEST NUMBER: P518390

CATALOG NUMBER: SQ4-BB-025U-125D-935-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4439.6	4439.6	4439.6	4439.6	4439.6
2.5°	4450.0	4407.9	4419.0	4418.8	4407.0
5°	4351.6	4307.5	4340.8	4356.3	4373.1
7.5°	4167.7	4133.3	4197.4	4245.4	4280.3
10°	4025.1	3995.7	4078.8	4144.3	4192.6
12.5°	3860.1	3837.5	3937.9	4027.8	4089.5
15°	3589.1	3576.5	3702.9	3827.2	3909.1
17.5°	3298.7	3298.3	3442.6	3596.9	3695.6
20°	3099.4	3105.7	3260.5	3430.6	3546.1
22.5°	2900.1	2914.8	3080.0	3257.5	3389.8
25°	2603.2	2624.2	2809.4	3001.6	3142.3
27.5°	2318.0	2348.6	2543.5	2743.3	2914.7
30°	2130.7	2166.4	2364.8	2575.0	2751.4
32.5°	1946.8	1989.2	2182.7	2405.0	2584.7
35°	1671.0	1713.0	1898.7	2122.2	2315.4
37.5°	1386.2	1427.4	1608.8	1828.7	2037.5
40°	1200.7	1246.9	1419.7	1632.9	1845.0
42.5°	1032.3	1078.5	1241.0	1450.5	1650.9
45°	801.2	849.5	992.3	1185.5	1370.3
47.5°	609.6	662.1	787.4	962.2	1130.6
50°	496.2	548.7	672.3	826.3	988.0
52.5°	405.1	455.9	567.5	712.6	860.9
55°	287.8	336.1	433.9	557.1	685.2
57.5°	198.9	240.5	328.2	431.0	531.4
60°	143.9	183.8	266.3	349.8	431.7
62.5°	95.8	132.3	213.1	277.0	332.1
65°	32.2	61.6	137.5	165.8	184.7
67.5°	16.3	19.7	72.2	76.2	82.5
70°	12.9	12.9	34.4	36.7	43.0
72.5°	9.5	9.5	13.7	17.6	18.9
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°	0.3	1.0	2.7	1.3	1.3
90°	1.7	4.9	13.3	6.6	6.6
92.5°	7.0	33.6	74.4	32.9	21.2
95°	16.6	65.3	217.5	112.1	76.4
97.5°	28.9	71.7	325.4	258.8	190.6
100°	38.2	77.1	358.6	363.4	282.2
102.5°	46.2	82.5	367.9	452.6	383.1
105°	59.8	90.6	366.9	556.9	519.6
107.5°	73.7	102.3	346.0	611.1	620.2
110°	83.0	109.0	328.7	625.1	664.0

TEST NUMBER: P518390

CATALOG NUMBER: SQ4-BB-025U-125D-935-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	92.3	117.0	312.8	616.3	676.0
115°	106.2	129.0	293.8	586.2	669.0
117.5°	119.9	140.6	280.9	544.6	636.5
120°	127.8	147.3	275.6	516.7	605.9
122.5°	135.8	155.3	271.6	488.7	576.7
125°	147.7	165.6	267.3	451.7	532.9
127.5°	157.4	175.6	263.6	421.9	490.4
130°	162.7	182.2	262.3	403.2	466.5
132.5°	168.0	187.5	261.0	387.1	443.9
135°	176.0	193.8	259.0	364.7	413.4
137.5°	184.3	201.8	258.6	347.9	387.8
140°	190.9	207.1	257.3	334.5	371.9
142.5°	196.2	211.2	257.3	325.1	357.3
145°	204.2	217.2	255.7	311.0	335.3
147.5°	212.2	224.8	255.7	299.3	319.4
150°	217.5	228.8	255.7	292.5	308.8
152.5°	222.8	231.5	255.7	287.1	299.5
155°	230.8	237.2	255.7	280.7	288.9
157.5°	236.7	242.9	255.7	275.0	280.9
160°	240.7	245.6	255.7	272.3	275.6
162.5°	244.7	248.3	255.7	269.7	272.9
165°	249.0	252.3	255.7	265.7	268.9
167.5°	253.0	254.6	257.3	264.0	265.3
170°	255.7	257.3	257.3	264.0	264.0
172.5°	257.0	257.3	257.3	262.6	261.3
175°	259.0	259.0	257.3	260.6	260.6
177.5°	259.0	259.0	257.6	260.3	259.0
180°	259.0	259.0	259.0	259.0	259.0

(END OF REPORT)