

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: P519062

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

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519062
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, G2-2009-966-13)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-WB-025U-125D-935-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

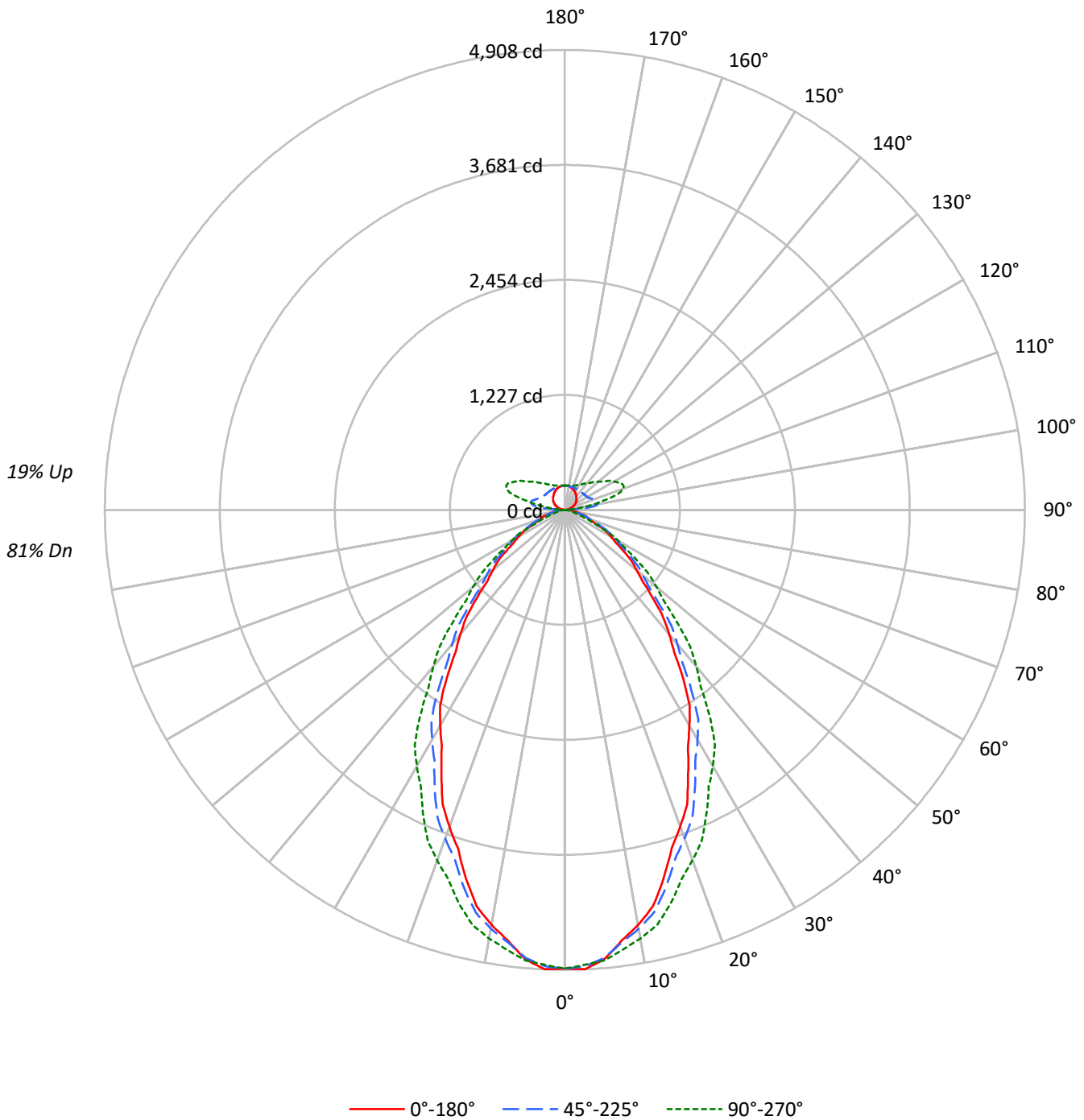
Lumens per Lamp: N/A
Luminaire Lumens: 8813.5 lumens
Efficiency: N/A
Efficacy: 86.7 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Direct

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									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	50	30	10	50	30	10	50	30	10	0																
RCR																																														
0	115	115	115	115	110	110	110	110	101	101	101	92	92	92	85	85	85	81																			81									
1	107	103	99	96	102	99	96	93	91	89	87	84	82	81	78	76	75	72																			72									
2	99	92	87	82	94	89	84	79	82	78	75	76	73	70	71	68	66	63																			63									
3	91	83	76	71	87	80	74	69	74	69	65	69	65	62	64	61	59	56																			56									
4	85	75	67	62	81	72	66	61	68	62	58	63	59	55	59	55	52	50																			50									
5	79	68	60	55	75	66	59	54	62	56	51	58	53	49	54	50	47	45																			45									
6	73	62	54	49	70	60	53	48	57	51	46	53	48	44	50	46	43	40																			40									
7	69	57	49	44	66	55	48	43	52	46	42	49	44	40	46	42	39	37																			37									
8	64	52	45	40	62	51	44	39	48	42	38	46	40	37	43	39	35	34																			34									
9	60	49	41	37	58	47	41	36	45	39	35	42	37	34	40	36	33	31																			31									
10	57	45	38	34	55	44	37	33	42	36	32	40	35	31	38	33	30	28																			28									

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	22583	22583	22583
5°	22301	22222	22351
10°	21070	21261	21754
15°	19451	19902	20794
20°	17663	18327	19540
25°	15843	16706	18204
30°	14165	15092	16820
35°	12387	13283	15182
40°	10426	11254	13142
45°	8604	9347	10973
50°	7184	7831	9142
55°	6099	6720	7550
60°	5212	5826	6025
65°	4150	4900	3892
70°	3679	3824	2375
75°	3408	3101	1454
80°	3137	2853	1257
85°	2842	2615	1022



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	449.0	5.1
10°-20°	1167.9	13.3
20°-30°	1512.8	17.2
30°-40°	1481.4	16.8
40°-50°	1133.9	12.9
50°-60°	755.6	8.6
60°-70°	412.3	4.7
70°-80°	171.8	1.9
80°-90°	50.0	0.6
90°-100°	126.2	1.4
100°-110°	331.8	3.8
110°-120°	344.1	3.9
120°-130°	276.0	3.1
130°-140°	216.6	2.5
140°-150°	166.2	1.9
150°-160°	119.7	1.4
160°-170°	73.2	0.8
170°-180°	24.7	0.3
0°-30°	3129.8	35.5
0°-40°	4611.2	52.3
0°-60°	6500.7	73.8
0°-90°	7134.9	81.0
90°-120°	802.1	9.1
90°-150°	1460.9	16.6
90°-180°	1679.0	19.1
0°-180°	8813.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4895	4895	4895	4895	4895	
5°	4816	4768	4799	4810	4827	448
15°	4073	4058	4167	4281	4354	1137
25°	3112	3121	3282	3425	3576	1431
35°	2200	2210	2359	2517	2696	1367
45°	1319	1344	1433	1541	1682	1029
55°	758	790	836	867	939	688
65°	380	412	449	392	357	395
75°	191	191	174	119	82	204
85°	54	54	49	32	19	58
90°	2	5	13	7	7	4
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	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4895.4	4895.4	4895.4	4895.4	4895.4
2.5°	4907.5	4863.8	4874.8	4874.5	4861.1
5°	4815.9	4767.6	4798.8	4809.9	4826.7
7.5°	4637.2	4600.7	4657.4	4699.4	4733.5
10°	4498.0	4466.5	4538.8	4600.0	4644.1
12.5°	4336.5	4310.0	4399.7	4481.7	4539.3
15°	4072.7	4058.0	4167.2	4280.6	4354.1
17.5°	3790.5	3783.3	3908.6	4040.9	4135.0
20°	3598.0	3595.9	3733.3	3871.1	3980.4
22.5°	3403.8	3408.4	3552.9	3696.2	3820.5
25°	3112.5	3120.9	3282.2	3425.3	3576.5
27.5°	2843.2	2846.9	3013.7	3164.7	3326.1
30°	2659.3	2669.8	2833.3	2989.6	3157.6
32.5°	2475.4	2487.6	2647.7	2809.3	2980.6
35°	2199.6	2210.1	2358.6	2517.3	2695.8
37.5°	1915.2	1929.5	2061.3	2211.3	2386.9
40°	1731.3	1752.3	1868.8	2010.2	2182.4
42.5°	1554.3	1580.4	1688.4	1822.5	1977.9
45°	1318.9	1344.1	1432.8	1541.2	1681.9
47.5°	1116.1	1145.1	1213.2	1306.6	1426.7
50°	1001.0	1028.3	1091.2	1160.4	1273.8
52.5°	899.6	926.9	983.0	1036.3	1132.9
55°	758.3	789.8	835.6	867.3	938.7
57.5°	642.3	672.5	708.9	723.2	766.4
60°	564.9	598.5	631.5	629.9	653.0
62.5°	494.5	523.0	555.9	533.2	534.4
65°	380.2	411.7	448.9	392.3	356.6
67.5°	307.2	313.9	352.3	273.6	231.1
70°	272.8	272.8	283.5	211.8	176.1
72.5°	240.2	240.2	230.3	172.3	134.9
75°	191.2	191.2	174.0	119.4	81.6
77.5°	147.4	145.7	133.2	89.1	59.3
80°	118.1	118.1	107.4	70.4	47.3
82.5°	92.4	92.4	83.3	55.0	35.2
85°	53.7	53.7	49.4	31.9	19.3
87.5°	19.2	19.9	19.8	11.6	9.9
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

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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)