

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: P521739

Luminaire Tested: **SQ4-WB-025U-100D-93050-1D-UNV-STD-W-4 (3500K)**

Issue Date: 5/5/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P521739  
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-100D-93050-1D-UNV-STD-W-4 (3500K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

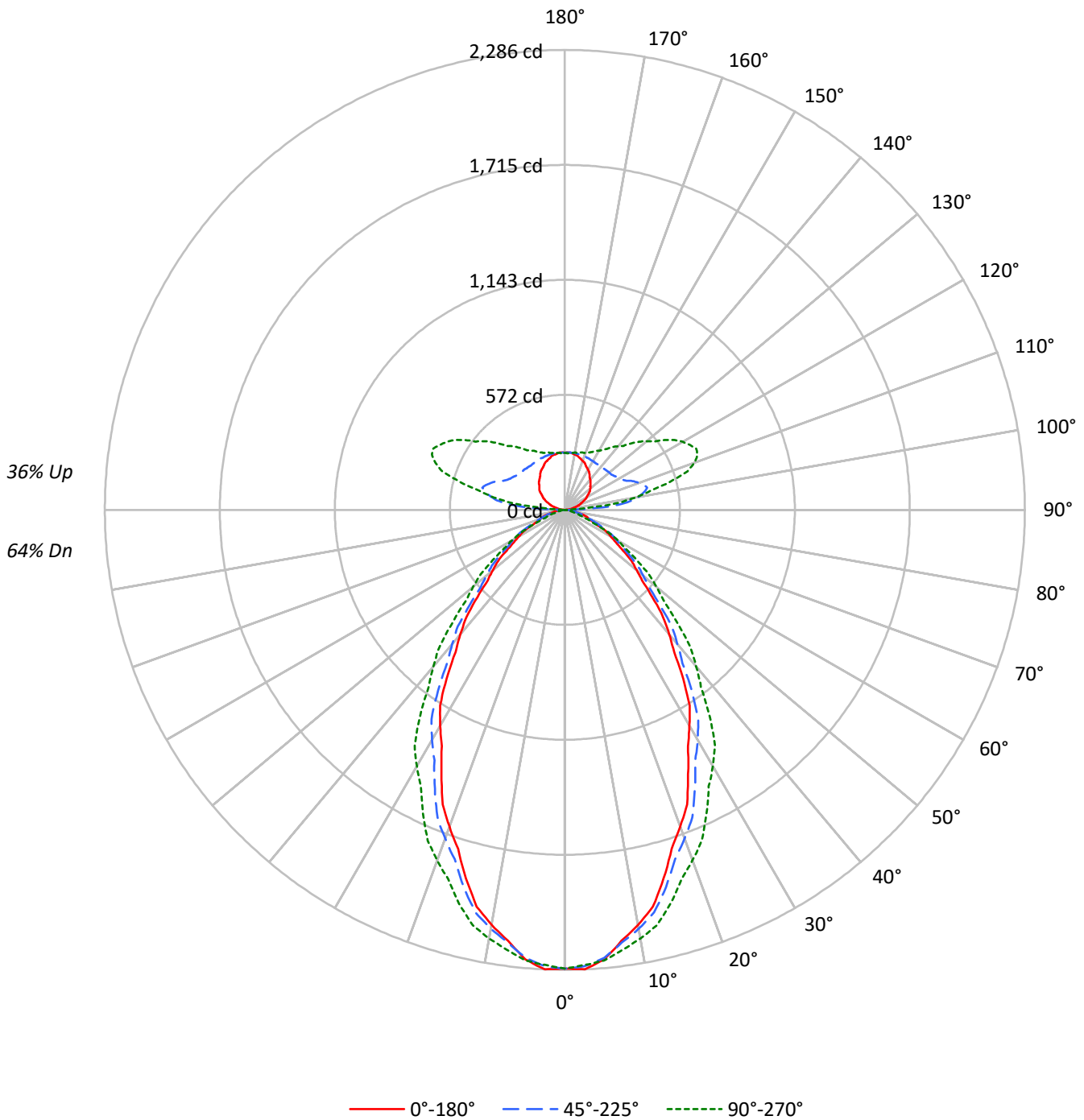
Lumens per Lamp: N/A  
Luminaire Lumens: 5158.7 lumens  
Efficiency: N/A  
Efficacy: 90.8 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 56.8  
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	111	111	111	111	104	104	104	104	91	91	91	80	80	80	69	69	69	64				
1	102	99	95	92	96	93	90	87	82	80	78	73	71	70	64	62	61	57				
2	95	88	82	78	89	83	78	74	74	70	67	66	63	61	58	56	54	50				
3	87	79	72	67	82	75	69	64	67	62	58	59	56	53	53	50	48	45				
4	81	71	64	58	76	67	61	56	60	55	51	54	50	47	48	45	43	40				
5	75	64	57	51	70	61	54	49	55	50	45	49	45	42	44	41	38	36				
6	70	58	51	45	66	56	49	44	50	45	41	45	41	38	41	37	35	32				
7	65	53	46	41	61	51	44	39	46	41	37	42	37	34	38	34	32	29				
8	61	49	42	37	57	47	40	35	43	37	33	39	34	31	35	32	29	27				
9	57	45	38	33	54	43	37	32	40	34	30	36	32	28	33	29	26	25				
10	53	42	35	30	51	40	34	30	37	31	28	34	29	26	31	27	24	23				

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

	0°	45°	90°
0°	21040	21040	21040
5°	20778	20704	20824
10°	19631	19809	20268
15°	18122	18543	19374
20°	16456	17076	18205
25°	14761	15565	16961
30°	13198	14062	15671
35°	11541	12375	14144
40°	9713	10485	12245
45°	8017	8708	10223
50°	6693	7296	8517
55°	5681	6262	7034
60°	4857	5429	5613
65°	3866	4565	3626
70°	3429	3563	2215
75°	3176	2891	1355
80°	2922	2657	1169
85°	2646	2435	953



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	209.2	4.1
10°-20°	544.1	10.5
20°-30°	704.7	13.7
30°-40°	690.1	13.4
40°-50°	528.2	10.2
50°-60°	352.0	6.8
60°-70°	192.1	3.7
70°-80°	80.0	1.6
80°-90°	22.7	0.4
90°-100°	146.1	2.8
100°-110°	353.2	6.8
110°-120°	376.7	7.3
120°-130°	305.1	5.9
130°-140°	236.2	4.6
140°-150°	180.2	3.5
150°-160°	130.4	2.5
160°-170°	80.3	1.6
170°-180°	27.2	0.5
0°-30°	1458.0	28.3
0°-40°	2148.1	41.6
0°-60°	3028.3	58.7
0°-90°	3323.1	64.4
90°-120°	876.1	17.0
90°-150°	1597.6	31.0
90°-180°	1836.0	35.6
0°-180°	5158.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2280	2280	2280	2280	2280	
5°	2244	2221	2236	2241	2248	209
15°	1897	1890	1941	1994	2028	530
25°	1450	1454	1529	1596	1666	667
35°	1025	1030	1099	1173	1256	637
45°	614	626	667	718	784	479
55°	353	368	389	404	437	320
65°	177	192	209	183	166	184
75°	89	89	81	56	38	95
85°	25	25	23	15	9	27
90°	0	0	0	0	0	2
95°	14	73	250	163	114	16
105°	56	98	424	549	542	60
115°	103	132	341	647	721	102
125°	147	169	296	514	604	131
135°	181	202	284	406	466	140
145°	214	230	279	345	372	134
155°	245	256	282	305	316	113
165°	271	275	286	290	294	76
175°	286	285	286	284	283	27
180°	283	283	283	283	283	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2280.5	2280.5	2280.5	2280.5	2280.5
2.5°	2286.1	2265.8	2270.9	2270.8	2264.5
5°	2243.5	2221.0	2235.5	2240.7	2248.5
7.5°	2160.2	2143.2	2169.6	2189.2	2205.1
10°	2095.4	2080.7	2114.4	2142.9	2163.4
12.5°	2020.1	2007.8	2049.6	2087.8	2114.6
15°	1897.3	1890.4	1941.3	1994.1	2028.3
17.5°	1765.8	1762.4	1820.8	1882.4	1926.3
20°	1676.1	1675.1	1739.2	1803.4	1854.2
22.5°	1585.7	1587.8	1655.1	1721.9	1779.8
25°	1450.0	1453.9	1529.0	1595.7	1666.1
27.5°	1324.5	1326.2	1403.9	1474.3	1549.4
30°	1238.8	1243.7	1319.9	1392.7	1471.0
32.5°	1153.2	1158.8	1233.4	1308.7	1388.5
35°	1024.7	1029.6	1098.7	1172.7	1255.8
37.5°	892.2	898.8	960.2	1030.1	1111.9
40°	806.5	816.3	870.6	936.4	1016.7
42.5°	724.1	736.2	786.5	849.0	921.4
45°	614.4	626.1	667.4	718.0	783.5
47.5°	519.9	533.4	565.2	608.7	664.6
50°	466.3	479.0	508.3	540.6	593.4
52.5°	419.1	431.8	457.9	482.7	527.8
55°	353.2	367.9	389.3	404.0	437.3
57.5°	299.2	313.3	330.2	336.9	357.0
60°	263.2	278.8	294.2	293.4	304.2
62.5°	230.4	243.7	259.0	248.4	249.0
65°	177.1	191.8	209.1	182.7	166.1
67.5°	143.1	146.2	164.1	127.4	107.7
70°	127.1	127.1	132.1	98.7	82.1
72.5°	111.9	111.9	107.3	80.3	62.8
75°	89.1	89.1	81.1	55.6	38.0
77.5°	68.6	67.9	62.0	41.5	27.6
80°	55.0	55.0	50.0	32.8	22.0
82.5°	43.0	43.0	38.8	25.6	16.4
85°	25.0	25.0	23.0	14.9	9.0
87.5°	8.8	8.8	8.0	4.8	4.0
90°	0.0	0.0	0.0	0.0	0.0
92.5°	4.8	39.6	93.2	45.3	30.7
95°	14.4	73.1	250.4	162.8	114.1
97.5°	25.6	81.0	329.8	317.7	272.7
100°	34.2	85.9	373.5	394.3	357.3
102.5°	42.4	90.3	402.3	458.0	436.0
105°	56.4	97.5	424.5	549.3	542.2
107.5°	70.3	106.1	411.4	622.4	639.0
110°	79.9	113.3	390.3	654.0	685.1

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	89.5	120.6	371.6	661.7	714.9
115°	103.3	132.0	341.1	646.6	721.1
117.5°	117.0	144.1	323.2	611.8	699.2
120°	126.1	151.3	311.6	584.5	676.1
122.5°	135.7	159.1	304.4	556.6	646.8
125°	147.1	169.4	296.0	514.2	604.1
127.5°	158.4	179.4	290.1	478.3	557.2
130°	165.1	185.7	288.2	453.3	530.8
132.5°	171.4	192.9	285.3	435.3	501.0
135°	180.7	201.9	284.0	405.5	466.5
137.5°	189.6	210.9	279.8	385.3	431.4
140°	196.3	215.7	279.8	370.8	413.1
142.5°	203.1	222.4	277.4	358.2	393.9
145°	213.8	229.6	278.6	344.7	371.7
147.5°	223.7	239.1	277.9	329.1	351.4
150°	230.0	243.5	279.8	322.2	339.9
152.5°	236.7	249.7	279.3	315.0	330.7
155°	245.0	255.6	282.2	305.3	316.4
157.5°	255.0	264.0	281.6	301.6	308.2
160°	258.8	266.4	284.0	296.7	301.4
162.5°	265.0	271.7	283.1	295.2	298.1
165°	270.8	274.9	285.8	290.1	294.2
167.5°	277.9	280.6	285.1	289.8	289.9
170°	279.8	281.6	287.0	286.5	289.4
172.5°	283.2	284.5	285.6	286.9	285.1
175°	286.4	285.2	286.4	284.0	283.4
177.5°	285.8	285.8	284.9	283.8	281.5
180°	283.4	283.4	283.4	283.4	283.4

(END OF REPORT)