

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: P521791

Luminaire Tested: **SQ4-WB-050U-100D-93050-1D-UNV-STD-W-4 (3500K)**

Issue Date: 5/5/2021

Test Information

Test Method: LM-79-08
Report Number: P521791
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-050U-100D-93050-1D-UNV-STD-W-4 (3500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

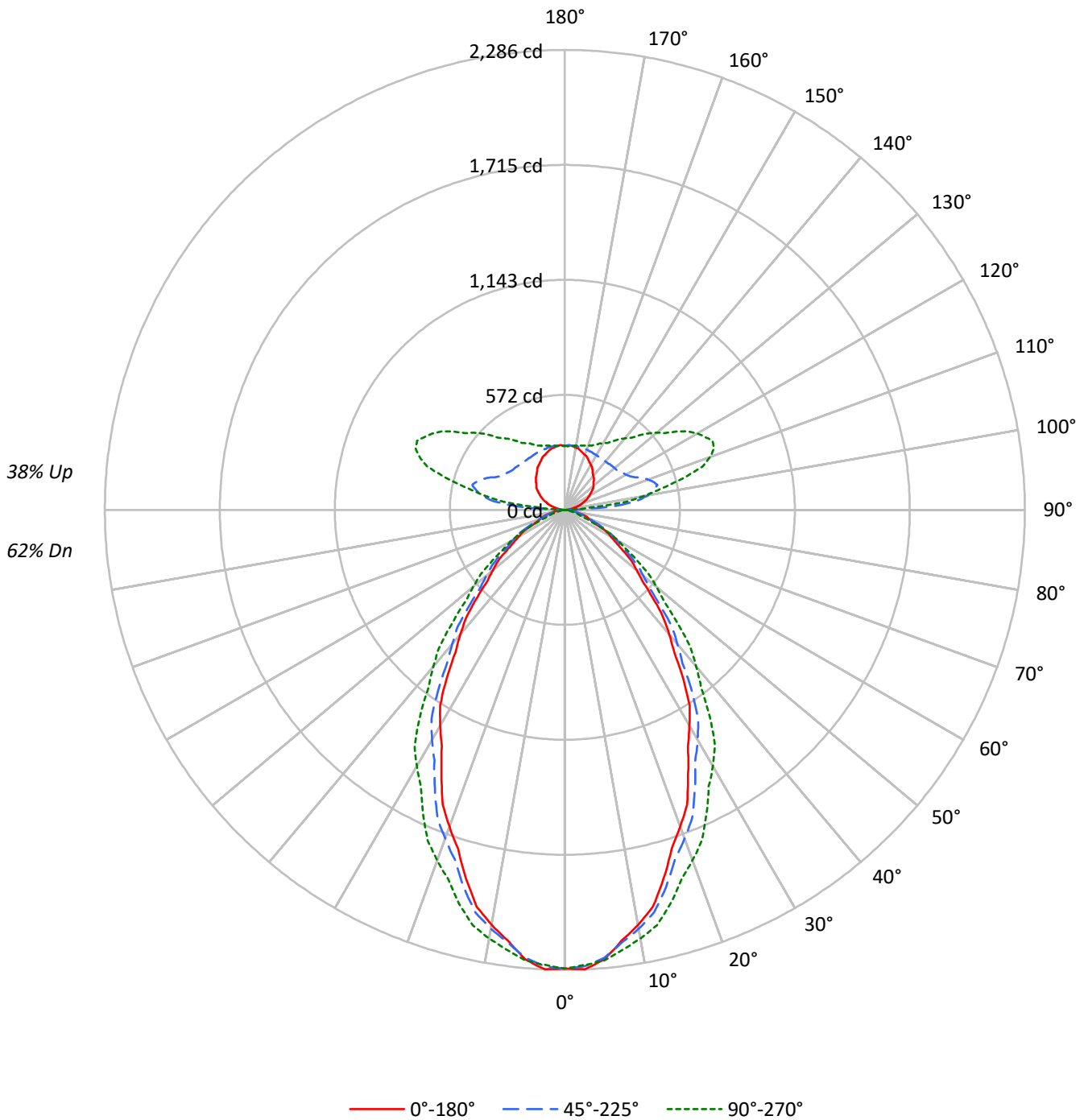
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5384.5 lumens
Efficiency: N/A
Efficacy: 92.0 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): 58.5
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					70					50					30				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																				
0	110	110	110	110	103	103	103	103	90	90	90	78	78	78	67	67	67	62		
1	102	98	95	91	95	92	89	86	81	79	77	71	69	68	61	60	59	55		
2	94	87	82	77	88	82	77	73	73	69	66	64	61	59	56	54	52	48		
3	87	78	71	66	81	74	68	63	65	61	57	58	54	52	51	48	46	43		
4	80	70	63	57	75	66	60	55	59	54	50	53	49	46	46	44	41	38		
5	74	63	56	50	70	60	53	48	54	49	45	48	44	41	43	39	37	34		
6	69	58	50	45	65	55	48	43	49	44	40	44	40	37	39	36	33	31		
7	64	53	45	40	60	50	43	39	45	40	36	41	36	33	36	33	30	28		
8	60	48	41	36	56	46	39	35	42	36	32	38	33	30	34	30	28	26		
9	56	45	38	33	53	43	36	32	39	33	30	35	31	28	32	28	25	24		
10	53	41	34	30	50	39	33	29	36	31	27	33	28	25	30	26	24	22		

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	3.9
10°-20°	544.1	10.1
20°-30°	704.7	13.1
30°-40°	690.1	12.8
40°-50°	528.2	9.8
50°-60°	352.0	6.5
60°-70°	192.1	3.6
70°-80°	80.0	1.5
80°-90°	22.7	0.4
90°-100°	164.1	3.0
100°-110°	396.6	7.4
110°-120°	423.1	7.9
120°-130°	342.6	6.4
130°-140°	265.3	4.9
140°-150°	202.4	3.8
150°-160°	146.5	2.7
160°-170°	90.2	1.7
170°-180°	30.6	0.6
0°-30°	1458.0	27.1
0°-40°	2148.1	39.9
0°-60°	3028.3	56.2
0°-90°	3323.1	61.7
90°-120°	983.8	18.3
90°-150°	1794.1	33.3
90°-180°	2061.0	38.3
0°-180°	5384.5	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°	16	82	281	183	128	18
105°	63	110	477	617	609	67
115°	116	148	383	726	810	115
125°	165	190	332	578	678	147
135°	203	227	319	455	524	157
145°	240	258	313	387	417	150
155°	275	287	317	343	355	127
165°	304	309	321	326	330	86
175°	322	320	322	319	318	30
180°	318	318	318	318	318	

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CATALOG NUMBER: SQ4-WB-050U-100D-93050-1D-UNV-STD-W-4 (3500K)

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°	5.4	44.4	104.7	50.9	34.5
95°	16.2	82.1	281.2	182.8	128.1
97.5°	28.7	91.0	370.3	356.8	306.3
100°	38.4	96.5	419.4	442.7	401.2
102.5°	47.6	101.4	451.8	514.3	489.7
105°	63.4	109.5	476.7	616.8	608.9
107.5°	78.9	119.1	462.0	699.0	717.6
110°	89.7	127.3	438.3	734.4	769.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	100.5	135.4	417.3	743.1	802.8
115°	116.0	148.3	383.0	726.1	809.8
117.5°	131.4	161.8	362.9	687.1	785.2
120°	141.6	170.0	350.0	656.4	759.3
122.5°	152.4	178.6	341.9	625.1	726.4
125°	165.2	190.3	332.4	577.5	678.3
127.5°	177.9	201.5	325.8	537.1	625.8
130°	185.4	208.5	323.7	509.1	596.1
132.5°	192.4	216.6	320.4	488.8	562.6
135°	203.0	226.7	318.9	455.4	523.9
137.5°	212.9	236.8	314.2	432.7	484.4
140°	220.5	242.3	314.2	416.4	463.9
142.5°	228.0	249.8	311.5	402.3	442.3
145°	240.1	257.9	312.9	387.1	417.4
147.5°	251.2	268.5	312.1	369.5	394.6
150°	258.3	273.4	314.2	361.9	381.7
152.5°	265.8	280.4	313.7	353.7	371.4
155°	275.1	287.0	316.9	342.8	355.4
157.5°	286.3	296.5	316.2	338.7	346.1
160°	290.6	299.2	318.9	333.2	338.5
162.5°	297.6	305.2	317.9	331.6	334.7
165°	304.1	308.7	321.0	325.8	330.4
167.5°	312.1	315.1	320.2	325.4	325.6
170°	314.2	316.2	322.3	321.7	325.0
172.5°	318.0	319.5	320.7	322.1	320.2
175°	321.6	320.3	321.6	318.9	318.3
177.5°	321.0	321.0	319.9	318.7	316.1
180°	318.3	318.3	318.3	318.3	318.3

(END OF REPORT)