

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: P521935

Luminaire Tested: **SQ4-WB-100U-075D-93050-1D-UNV-STD-W-4 (4000K)**

Issue Date: 5/5/2021

Test Information

Test Method: LM-79-08
Report Number: P521935
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-100U-075D-93050-1D-UNV-STD-W-4 (4000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

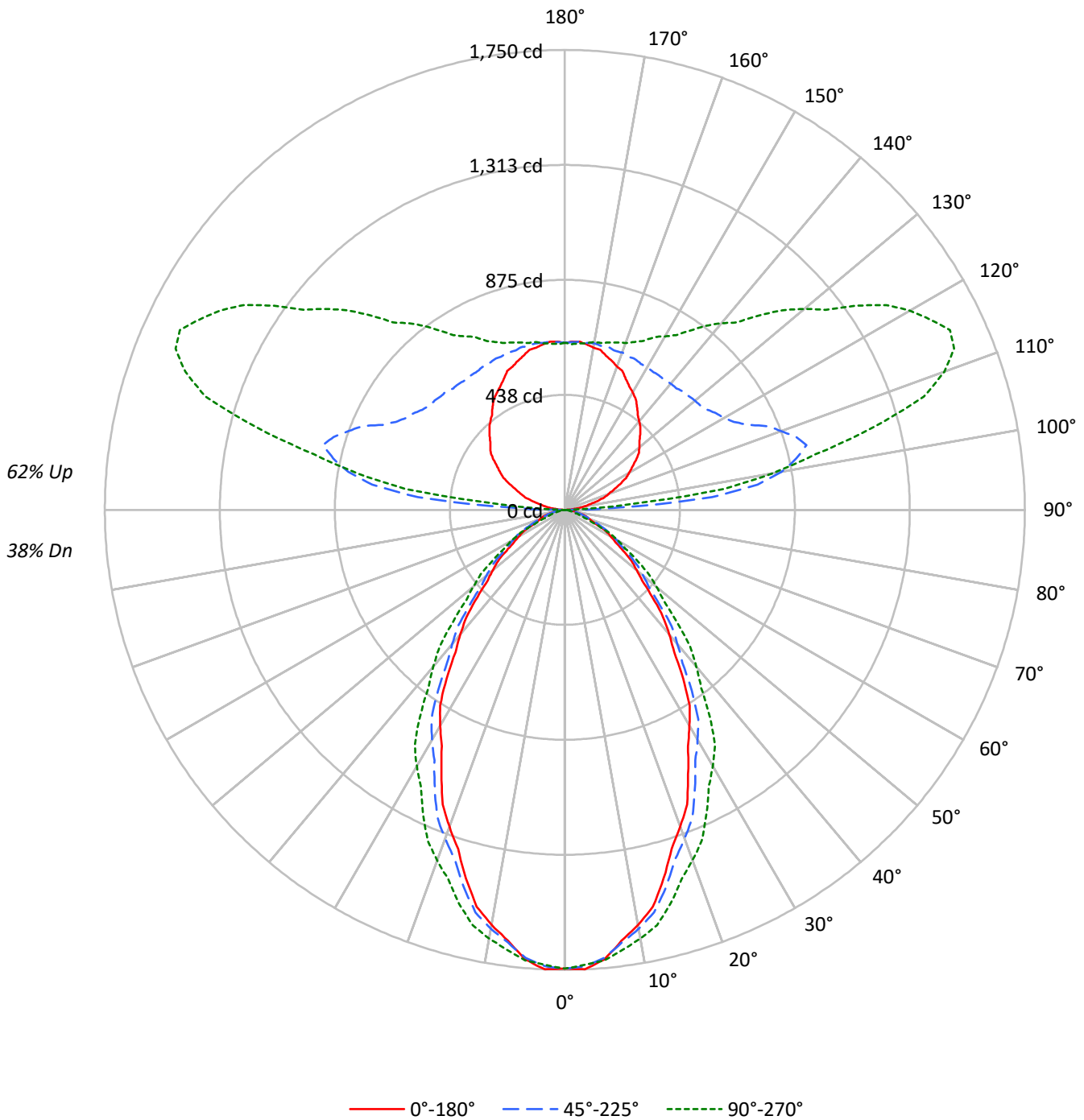
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6659.1 lumens
Efficiency: N/A
Efficacy: 104.2 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-Indirect

Input Watts (W): 63.9
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	104	104	104	104	95	95	95	95	77	77	77	60	60	60	45	45	45	38
1	96	92	89	85	87	84	81	78	68	67	65	54	53	52	41	41	40	34
2	88	81	76	71	80	74	70	66	61	58	55	49	47	45	37	36	35	30
3	81	72	66	60	73	66	61	56	55	51	47	44	41	39	34	32	31	26
4	75	65	57	52	68	59	53	48	49	45	41	40	37	34	31	29	27	24
5	69	58	51	45	62	53	47	42	44	40	36	36	33	30	28	26	25	21
6	64	52	45	40	58	48	42	37	40	36	32	33	30	27	26	24	22	19
7	59	48	40	35	54	44	37	33	37	32	28	30	27	24	24	22	20	17
8	55	43	36	31	50	40	34	29	34	29	26	28	24	22	22	20	18	16
9	51	40	33	28	47	37	31	26	31	26	23	26	22	20	21	18	17	15
10	48	37	30	25	44	34	28	24	29	24	21	24	21	18	20	17	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16106	16106	16106
5°	15906	15848	15941
10°	15027	15163	15515
15°	13872	14194	14831
20°	12597	13071	13936
25°	11299	11915	12984
30°	10103	10763	11996
35°	8835	9473	10827
40°	7436	8026	9374
45°	6136	6666	7826
50°	5124	5585	6519
55°	4349	4793	5384
60°	3718	4155	4298
65°	2960	3495	2777
70°	2625	2727	1694
75°	2431	2210	1037
80°	2237	2035	898
85°	2022	1863	730



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.1	2.4
10°-20°	416.5	6.3
20°-30°	539.5	8.1
30°-40°	528.3	7.9
40°-50°	404.4	6.1
50°-60°	269.4	4.0
60°-70°	147.0	2.2
70°-80°	61.3	0.9
80°-90°	17.3	0.3
90°-100°	327.6	4.9
100°-110°	791.9	11.9
110°-120°	844.6	12.7
120°-130°	684.0	10.3
130°-140°	529.6	8.0
140°-150°	404.0	6.1
150°-160°	292.5	4.4
160°-170°	180.1	2.7
170°-180°	61.0	0.9
0°-30°	1116.1	16.8
0°-40°	1644.3	24.7
0°-60°	2318.2	34.8
0°-90°	2543.8	38.2
90°-120°	1964.1	29.5
90°-150°	3581.8	53.8
90°-180°	4115.0	61.8
0°-180°	6659.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1746	1746	1746	1746	1746	
5°	1717	1700	1711	1715	1721	160
15°	1452	1447	1486	1526	1553	406
25°	1110	1113	1170	1222	1275	510
35°	784	788	841	898	961	488
45°	470	479	511	550	600	367
55°	270	282	298	309	335	245
65°	136	147	160	140	127	141
75°	68	68	62	43	29	73
85°	19	19	18	11	7	21
90°	0	0	0	0	0	2
95°	32	164	561	365	256	36
105°	126	219	952	1231	1216	134
115°	232	296	765	1450	1617	229
125°	330	380	664	1153	1354	294
135°	405	453	637	909	1046	313
145°	479	515	625	773	833	300
155°	549	573	633	684	709	254
165°	607	616	641	650	660	171
175°	642	640	642	637	635	61
180°	635	635	635	635	635	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1745.7	1745.7	1745.7	1745.7	1745.7
2.5°	1750.0	1734.4	1738.3	1738.2	1733.4
5°	1717.4	1700.1	1711.2	1715.2	1721.2
7.5°	1653.6	1640.6	1660.8	1675.8	1687.9
10°	1604.0	1592.8	1618.5	1640.4	1656.1
12.5°	1546.4	1537.0	1568.9	1598.2	1618.7
15°	1452.3	1447.1	1486.0	1526.5	1552.7
17.5°	1351.7	1349.1	1393.8	1441.0	1474.5
20°	1283.0	1282.3	1331.3	1380.4	1419.4
22.5°	1213.8	1215.4	1267.0	1318.1	1362.4
25°	1109.9	1112.9	1170.4	1221.5	1275.4
27.5°	1013.9	1015.2	1074.7	1128.5	1186.1
30°	948.3	952.0	1010.3	1066.1	1126.0
32.5°	882.7	887.1	944.2	1001.8	1062.9
35°	784.4	788.1	841.1	897.7	961.3
37.5°	683.0	688.1	735.0	788.6	851.2
40°	617.4	624.9	666.4	716.8	778.3
42.5°	554.3	563.6	602.1	649.9	705.3
45°	470.3	479.3	510.9	549.6	599.8
47.5°	398.0	408.3	432.6	465.9	508.8
50°	357.0	366.7	389.1	413.8	454.2
52.5°	320.8	330.5	350.5	369.5	404.0
55°	270.4	281.6	298.0	309.3	334.7
57.5°	229.0	239.8	252.8	257.9	273.3
60°	201.5	213.4	225.2	224.6	232.9
62.5°	176.3	186.5	198.2	190.1	190.6
65°	135.6	146.8	160.1	139.9	127.2
67.5°	109.5	111.9	125.6	97.6	82.4
70°	97.3	97.3	101.1	75.5	62.8
72.5°	85.6	85.6	82.1	61.4	48.1
75°	68.2	68.2	62.0	42.6	29.1
77.5°	52.5	51.9	47.5	31.8	21.1
80°	42.1	42.1	38.3	25.1	16.9
82.5°	32.9	32.9	29.7	19.6	12.6
85°	19.1	19.1	17.6	11.4	6.9
87.5°	6.7	6.7	6.1	3.7	3.1
90°	0.0	0.0	0.0	0.0	0.0
92.5°	10.8	88.7	208.9	101.6	68.9
95°	32.3	163.9	561.4	365.0	255.8
97.5°	57.3	181.6	739.3	712.3	611.4
100°	76.7	192.6	837.3	883.9	801.0
102.5°	95.0	202.4	902.0	1026.8	977.6
105°	126.5	218.7	951.8	1231.4	1215.6
107.5°	157.5	237.8	922.4	1395.5	1432.6
110°	179.0	254.1	875.0	1466.2	1536.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	200.6	270.3	833.0	1483.5	1602.8
115°	231.5	296.0	764.6	1449.6	1616.8
117.5°	262.2	323.1	724.5	1371.6	1567.5
120°	282.7	339.3	698.7	1310.5	1515.8
122.5°	304.2	356.6	682.5	1247.9	1450.1
125°	329.8	379.8	663.7	1152.9	1354.3
127.5°	355.1	402.2	650.5	1072.4	1249.3
130°	370.2	416.3	646.2	1016.3	1190.0
132.5°	384.2	432.4	639.7	975.8	1123.3
135°	405.2	452.6	636.8	909.1	1046.0
137.5°	425.1	472.8	627.3	863.9	967.1
140°	440.2	483.6	627.3	831.4	926.2
142.5°	455.3	498.7	621.9	803.1	883.1
145°	479.2	514.8	624.6	772.7	833.3
147.5°	501.6	536.1	623.0	737.8	787.8
150°	515.6	545.9	627.3	722.5	761.9
152.5°	530.7	559.9	626.2	706.2	741.5
155°	549.2	572.9	632.7	684.4	709.4
157.5°	571.6	591.9	631.4	676.1	690.9
160°	580.2	597.3	636.8	665.3	675.8
162.5°	594.2	609.2	634.6	661.9	668.3
165°	607.1	616.3	640.8	650.4	659.6
167.5°	623.0	629.1	639.2	649.7	649.9
170°	627.3	631.3	643.5	642.3	648.9
172.5°	634.9	637.8	640.3	643.1	639.2
175°	642.1	639.5	642.1	636.7	635.4
177.5°	640.8	640.8	638.6	636.4	631.1
180°	635.4	635.4	635.4	635.4	635.4

(END OF REPORT)