

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: P521937

Luminaire Tested: **SQ4-WB-100U-075D-93050-1D-UNV-STD-W-4 (5000K)**

Issue Date: 5/5/2021

Test Information

Test Method: LM-79-08
Report Number: P521937
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 (5000K)
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 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

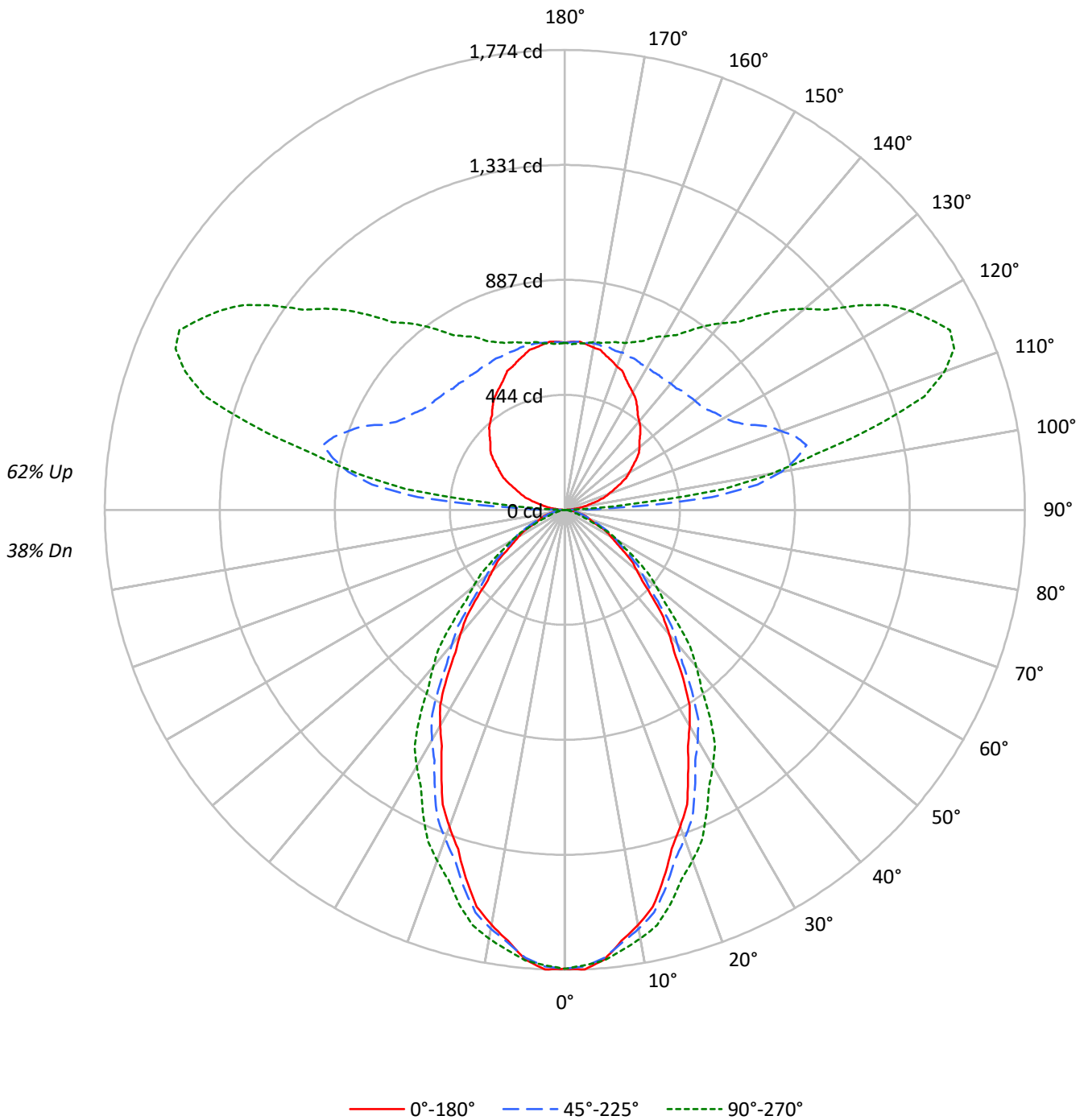
Lumens per Lamp: N/A
Luminaire Lumens: 6751.9 lumens
Efficiency: N/A
Efficacy: 106.0 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 63.7
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°	16330	16330	16330
5°	16127	16070	16163
10°	15236	15375	15732
15°	14066	14391	15037
20°	12773	13253	14131
25°	11457	12081	13165
30°	10243	10913	12163
35°	8958	9605	10978
40°	7540	8138	9504
45°	6223	6759	7934
50°	5195	5662	6611
55°	4411	4859	5459
60°	3770	4213	4357
65°	3002	3543	2814
70°	2660	2765	1718
75°	2463	2242	1052
80°	2269	2062	909
85°	2054	1895	741



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.4	2.4
10°-20°	422.3	6.3
20°-30°	547.0	8.1
30°-40°	535.6	7.9
40°-50°	410.0	6.1
50°-60°	273.2	4.0
60°-70°	149.1	2.2
70°-80°	62.1	0.9
80°-90°	17.6	0.3
90°-100°	332.2	4.9
100°-110°	802.9	11.9
110°-120°	856.3	12.7
120°-130°	693.6	10.3
130°-140°	537.0	8.0
140°-150°	409.7	6.1
150°-160°	296.5	4.4
160°-170°	182.6	2.7
170°-180°	61.8	0.9
0°-30°	1131.6	16.8
0°-40°	1667.3	24.7
0°-60°	2350.5	34.8
0°-90°	2579.2	38.2
90°-120°	1991.5	29.5
90°-150°	3631.7	53.8
90°-180°	4173.0	61.8
0°-180°	6751.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1770	1770	1770	1770	1770	
5°	1741	1724	1735	1739	1745	162
15°	1473	1467	1507	1548	1574	411
25°	1125	1128	1187	1238	1293	518
35°	795	799	853	910	975	494
45°	477	486	518	557	608	372
55°	274	286	302	314	339	249
65°	138	149	162	142	129	143
75°	69	69	63	43	30	74
85°	19	19	18	12	7	21
90°	0	0	0	0	0	2
95°	33	166	569	370	259	37
105°	128	222	965	1249	1233	136
115°	235	300	775	1470	1639	232
125°	334	385	673	1169	1373	298
135°	411	459	646	922	1061	317
145°	486	522	633	784	845	304
155°	557	581	642	694	719	257
165°	616	625	650	660	669	174
175°	651	648	651	646	644	62
180°	644	644	644	644	644	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1770.0	1770.0	1770.0	1770.0	1770.0
2.5°	1774.4	1758.6	1762.6	1762.5	1757.6
5°	1741.3	1723.8	1735.1	1739.1	1745.2
7.5°	1676.7	1663.5	1684.0	1699.2	1711.5
10°	1626.3	1615.0	1641.1	1663.2	1679.2
12.5°	1567.9	1558.4	1590.8	1620.4	1641.3
15°	1472.6	1467.2	1506.7	1547.7	1574.3
17.5°	1370.5	1367.9	1413.2	1461.1	1495.1
20°	1300.9	1300.2	1349.8	1399.7	1439.2
22.5°	1230.7	1232.4	1284.6	1336.4	1381.4
25°	1125.4	1128.4	1186.7	1238.5	1293.2
27.5°	1028.0	1029.4	1089.7	1144.3	1202.6
30°	961.5	965.3	1024.4	1080.9	1141.7
32.5°	895.0	899.4	957.3	1015.7	1077.7
35°	795.3	799.1	852.8	910.2	974.7
37.5°	692.5	697.6	745.3	799.5	863.0
40°	626.0	633.6	675.7	726.8	789.1
42.5°	562.0	571.4	610.5	659.0	715.2
45°	476.9	486.0	518.0	557.3	608.1
47.5°	403.6	414.0	438.7	472.4	515.9
50°	361.9	371.8	394.5	419.6	460.6
52.5°	325.3	335.1	355.4	374.7	409.6
55°	274.2	285.6	302.1	313.6	339.4
57.5°	232.2	243.2	256.3	261.5	277.1
60°	204.3	216.4	228.3	227.8	236.1
62.5°	178.8	189.1	201.0	192.8	193.2
65°	137.5	148.9	162.3	141.8	128.9
67.5°	111.1	113.5	127.4	98.9	83.6
70°	98.6	98.6	102.5	76.6	63.7
72.5°	86.8	86.8	83.3	62.3	48.8
75°	69.1	69.1	62.9	43.2	29.5
77.5°	53.3	52.7	48.2	32.2	21.4
80°	42.7	42.7	38.8	25.4	17.1
82.5°	33.4	33.4	30.1	19.9	12.7
85°	19.4	19.4	17.9	11.5	7.0
87.5°	6.8	6.8	6.2	3.7	3.1
90°	0.0	0.0	0.0	0.0	0.0
92.5°	10.9	89.9	211.8	103.0	69.9
95°	32.8	166.2	569.2	370.1	259.3
97.5°	58.1	184.1	749.6	722.2	620.0
100°	77.8	195.2	849.0	896.2	812.1
102.5°	96.4	205.3	914.5	1041.1	991.2
105°	128.3	221.7	965.0	1248.6	1232.6
107.5°	159.7	241.1	935.3	1414.9	1452.6
110°	181.5	257.6	887.2	1486.7	1557.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	203.4	274.1	844.6	1504.2	1625.1
115°	234.8	300.2	775.3	1469.8	1639.3
117.5°	265.9	327.6	734.6	1390.8	1589.3
120°	286.6	344.0	708.4	1328.7	1536.9
122.5°	308.5	361.6	692.0	1265.3	1470.3
125°	334.4	385.1	672.9	1168.9	1373.1
127.5°	360.1	407.9	659.5	1087.3	1266.7
130°	375.4	422.1	655.2	1030.4	1206.6
132.5°	389.6	438.4	648.6	989.4	1138.9
135°	410.9	458.9	645.6	921.8	1060.6
137.5°	431.1	479.4	636.1	875.9	980.6
140°	446.3	490.4	636.1	843.0	939.1
142.5°	461.6	505.7	630.6	814.3	895.4
145°	485.9	522.0	633.3	783.5	844.9
147.5°	508.6	543.5	631.7	748.1	798.8
150°	522.8	553.5	636.1	732.5	772.6
152.5°	538.1	567.7	635.0	716.0	751.8
155°	556.9	580.9	641.5	694.0	719.3
157.5°	579.6	600.1	640.2	685.5	700.5
160°	588.3	605.6	645.6	674.5	685.2
162.5°	602.5	617.7	643.4	671.2	677.6
165°	615.6	624.9	649.7	659.5	668.8
167.5°	631.7	637.8	648.1	658.7	659.0
170°	636.1	640.1	652.4	651.2	657.9
172.5°	643.7	646.6	649.2	652.1	648.1
175°	651.1	648.4	651.1	645.6	644.3
177.5°	649.7	649.7	647.5	645.2	639.9
180°	644.3	644.3	644.3	644.3	644.3

(END OF REPORT)