

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: P564098

Luminaire Tested: **SQ4-PR1-075U-100D-840-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564098
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PR1-075U-100D-840-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

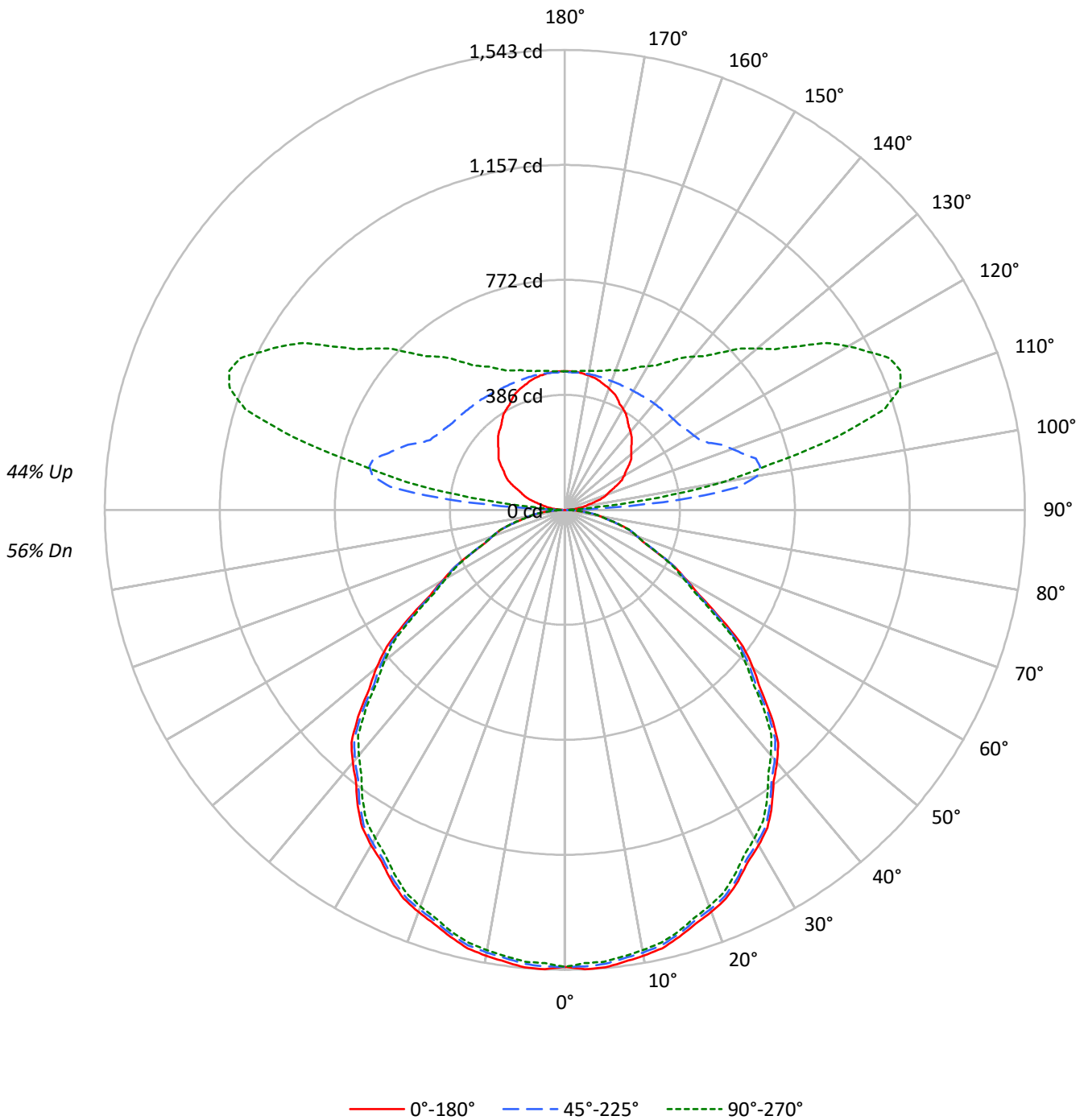
Lumens per Lamp: N/A
Luminaire Lumens: 6858.1 lumens
Efficiency: N/A
Efficacy: 133.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 51.3
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	109	109	109	109	101	101	101	101	87	87	87	74	74	74	62	62	62	56
1	99	95	91	88	92	89	85	82	76	74	72	65	64	62	55	54	53	48
2	91	84	77	72	84	78	73	68	67	63	60	58	55	52	49	47	45	41
3	83	74	66	61	77	69	62	57	60	55	51	51	48	45	43	41	38	35
4	76	65	58	52	71	61	54	49	53	48	44	46	42	38	39	36	33	30
5	70	58	50	44	65	55	48	42	48	42	38	41	37	33	35	32	29	26
6	65	53	44	39	60	49	42	37	43	37	33	37	33	29	32	29	26	23
7	60	47	40	34	55	45	37	32	39	33	29	34	30	26	29	26	23	21
8	55	43	35	30	52	41	34	29	36	30	26	31	27	23	27	23	21	18
9	52	39	32	27	48	37	30	26	33	27	23	29	24	21	25	21	19	17
10	48	36	29	24	45	34	28	23	30	25	21	27	22	19	23	20	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14147	14147	14147
5°	14274	14164	14090
10°	14229	14130	14056
15°	14166	14078	14003
20°	14095	14004	13901
25°	13995	13902	13740
30°	13844	13746	13549
35°	13641	13521	13328
40°	13329	13186	12947
45°	12786	12562	12304
50°	11829	11544	11316
55°	10325	10090	9878
60°	8700	8626	8457
65°	7525	7554	7497
70°	6911	6946	6946
75°	6638	6638	6684
80°	6243	6317	6243
85°	5028	5589	5589



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.0	2.1
10°-20°	414.9	6.0
20°-30°	625.7	9.1
30°-40°	745.6	10.9
40°-50°	735.0	10.7
50°-60°	561.8	8.2
60°-70°	347.6	5.1
70°-80°	197.4	2.9
80°-90°	61.2	0.9
90°-100°	218.9	3.2
100°-110°	602.3	8.8
110°-120°	621.7	9.1
120°-130°	498.1	7.3
130°-140°	391.2	5.7
140°-150°	299.8	4.4
150°-160°	215.6	3.1
160°-170°	131.8	1.9
170°-180°	44.4	0.6
0°-30°	1185.6	17.3
0°-40°	1931.1	28.2
0°-60°	3227.9	47.1
0°-90°	3834.3	55.9
90°-120°	1442.9	21.0
90°-150°	2632.1	38.4
90°-180°	3024.0	44.1
0°-180°	6858.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1533	1533	1533	1533	1533	
5°	1541	1524	1529	1524	1521	146
15°	1483	1468	1474	1468	1466	419
25°	1375	1358	1366	1351	1350	633
35°	1211	1197	1200	1185	1183	756
45°	980	967	963	946	943	751
55°	642	632	627	617	614	575
65°	345	342	346	343	343	349
75°	186	186	186	188	188	197
85°	48	50	53	53	53	55
90°	1	4	7	9	9	4
95°	33	120	387	166	106	34
105°	108	166	664	1011	943	113
115°	191	232	532	1060	1203	188
125°	263	299	483	817	957	234
135°	317	352	469	661	748	245
145°	366	392	462	563	606	230
155°	415	428	459	506	520	191
165°	448	454	461	480	483	126
175°	464	465	462	468	467	44
180°	464	464	464	464	464	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1533.3	1533.3	1533.3	1533.3	1533.3
2.5°	1542.8	1529.4	1533.3	1530.0	1522.7
5°	1541.2	1524.4	1529.3	1524.0	1521.4
7.5°	1529.3	1512.8	1517.7	1512.4	1510.9
10°	1518.8	1503.3	1508.2	1502.9	1500.3
12.5°	1507.2	1490.6	1496.6	1490.2	1487.6
15°	1483.1	1467.6	1473.9	1468.5	1466.0
17.5°	1456.7	1440.2	1446.4	1440.3	1436.9
20°	1435.6	1420.1	1426.3	1417.1	1415.8
22.5°	1412.3	1396.8	1403.1	1390.7	1390.4
25°	1374.8	1358.0	1365.6	1351.0	1349.7
27.5°	1330.2	1314.7	1320.9	1306.1	1304.6
30°	1299.5	1284.1	1290.3	1274.4	1271.8
32.5°	1264.7	1250.2	1255.4	1239.6	1238.0
35°	1211.1	1196.9	1200.5	1184.6	1183.3
37.5°	1150.0	1137.1	1139.2	1121.8	1120.5
40°	1106.7	1093.8	1094.8	1076.3	1075.0
42.5°	1059.2	1046.3	1045.2	1026.7	1025.4
45°	979.9	967.0	962.8	945.5	943.0
47.5°	889.6	876.7	868.7	854.7	852.9
50°	824.1	811.2	804.3	792.3	788.4
52.5°	753.3	740.4	734.6	723.6	719.8
55°	641.9	631.5	627.3	616.7	614.1
57.5°	535.9	529.0	527.7	517.4	516.4
60°	471.5	467.6	467.5	458.3	458.3
62.5°	416.5	413.7	415.8	409.7	408.6
65°	344.7	342.1	346.0	343.4	343.4
67.5°	287.9	287.9	290.3	289.2	289.2
70°	256.2	256.2	257.5	257.5	257.5
72.5°	227.7	226.7	230.1	230.0	229.0
75°	186.2	186.2	186.2	187.5	187.5
77.5°	145.0	145.3	146.3	146.0	145.0
80°	117.5	118.8	118.9	117.5	117.5
82.5°	90.1	91.4	91.4	91.1	90.1
85°	47.5	50.1	52.8	52.8	52.8
87.5°	13.9	18.6	22.5	22.9	21.9
90°	1.0	3.9	6.9	8.9	8.9
92.5°	13.6	58.2	100.9	38.8	31.8
95°	32.6	119.5	387.1	165.5	105.7
97.5°	53.1	132.5	590.8	455.2	321.2
100°	68.1	140.6	654.8	660.9	539.2
102.5°	82.4	150.2	671.4	819.9	708.3
105°	107.6	165.6	663.7	1010.8	943.2
107.5°	131.7	184.7	625.9	1104.2	1124.3
110°	149.1	197.4	597.5	1127.4	1197.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	164.9	211.7	569.1	1112.5	1218.3
115°	190.6	232.1	532.3	1060.0	1202.9
117.5°	215.1	253.3	509.0	986.3	1148.0
120°	230.1	266.8	498.7	931.2	1098.2
122.5°	243.5	280.2	491.6	882.8	1041.3
125°	262.7	299.4	482.9	817.0	957.0
127.5°	280.9	315.8	477.2	762.1	884.9
130°	290.4	326.1	474.1	729.4	841.4
132.5°	301.4	337.1	471.7	700.7	801.9
135°	317.0	351.8	469.1	660.7	747.6
137.5°	331.6	363.9	466.9	628.4	700.0
140°	342.7	372.6	466.1	606.9	671.6
142.5°	352.2	379.8	464.6	587.7	643.1
145°	366.4	391.5	462.2	562.9	606.4
147.5°	381.6	403.2	461.0	541.0	575.8
150°	391.1	410.4	460.2	529.0	556.0
152.5°	399.8	417.6	459.4	518.6	541.0
155°	414.8	428.3	459.2	506.0	520.5
157.5°	425.7	436.7	459.2	495.6	505.7
160°	433.6	442.2	459.2	490.0	497.8
162.5°	439.9	447.0	460.0	485.3	491.4
165°	448.4	454.2	461.2	480.0	482.9
167.5°	454.3	458.7	462.2	475.6	476.4
170°	458.2	461.1	462.2	474.1	474.1
172.5°	461.4	462.8	462.2	471.7	470.9
175°	464.2	465.1	462.2	468.1	467.1
177.5°	465.0	465.0	461.8	466.5	465.0
180°	464.2	464.2	464.2	464.2	464.2

(END OF REPORT)