

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: P564746

Luminaire Tested: **SQ4-PW1-075U-075D-840-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564746
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, G2-2106-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PW1-075U-075D-840-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

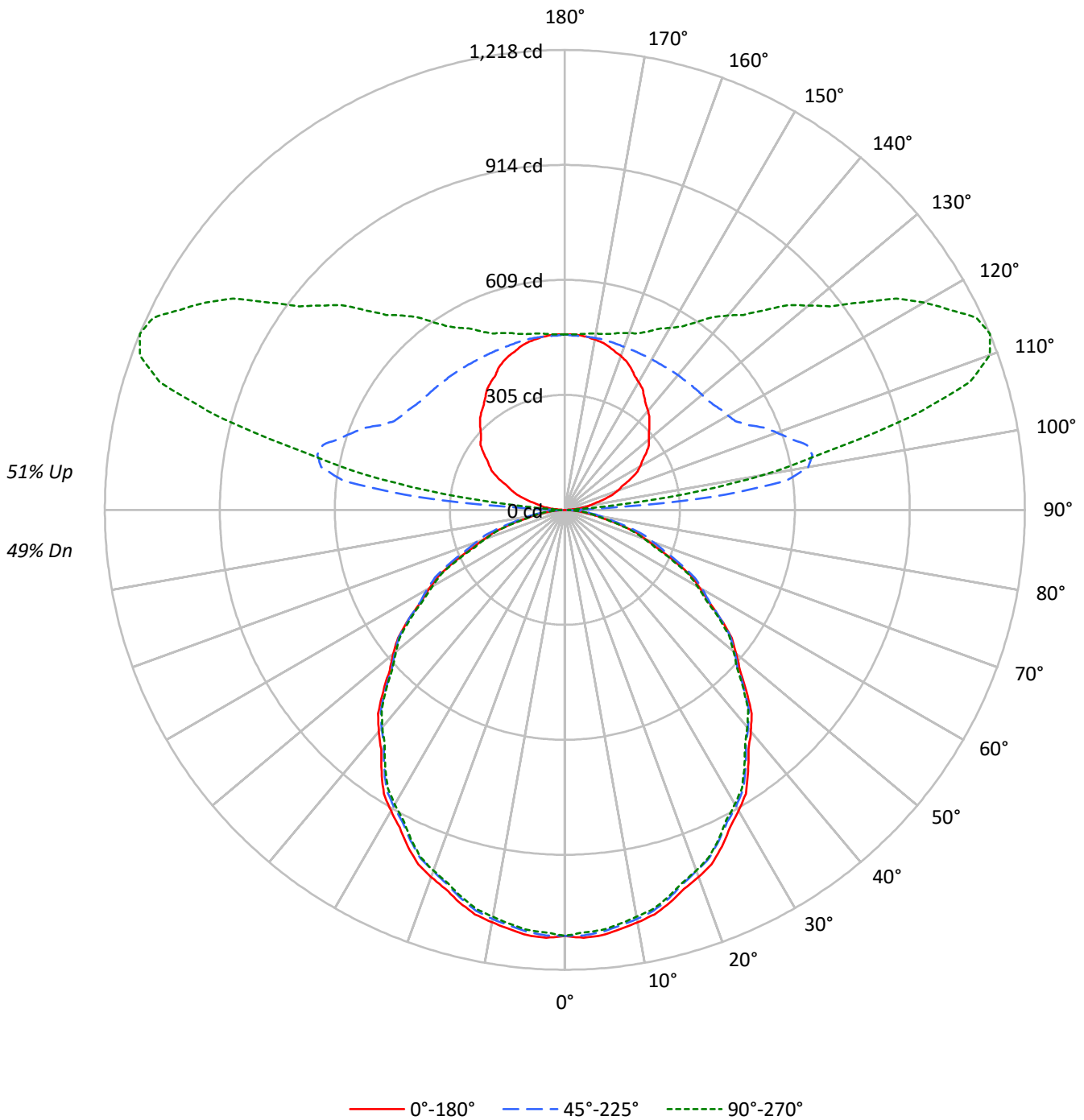
Lumens per Lamp: N/A
Luminaire Lumens: 5895.3 lumens
Efficiency: N/A
Efficacy: 138.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 42.5
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					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	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55	49				
1	98	93	89	86	90	86	83	80	73	70	68	60	59	57	49	48	47	41				
2	89	82	75	70	82	75	70	66	64	60	56	53	50	48	43	41	39	35				
3	81	72	64	59	74	66	60	55	56	51	48	47	43	40	38	36	34	29				
4	74	64	56	50	68	59	52	47	50	45	41	42	38	35	34	31	29	25				
5	68	57	49	43	63	52	45	40	45	39	35	37	33	30	31	28	25	22				
6	63	51	43	37	58	47	40	35	40	35	30	34	30	26	28	25	22	19				
7	58	46	38	32	53	43	36	30	37	31	27	31	26	23	25	22	20	17				
8	54	42	34	29	50	39	32	27	33	28	24	28	24	21	23	20	18	15				
9	50	38	30	25	46	35	29	24	31	25	21	26	22	19	22	18	16	14				
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	15	13				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10409	10409	10409
5°	10476	10393	10347
10°	10393	10308	10253
15°	10282	10168	10130
20°	10159	10003	9983
25°	10017	9835	9805
30°	9805	9657	9593
35°	9527	9392	9337
40°	9229	9086	9050
45°	8871	8754	8715
50°	8503	8431	8375
55°	8105	8105	7978
60°	7612	7757	7482
65°	6966	7313	6792
70°	6140	6730	5980
75°	5244	6024	5101
80°	4065	5069	4118
85°	2625	3896	3472



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.2	1.8
10°-20°	299.9	5.1
20°-30°	444.9	7.5
30°-40°	520.6	8.8
40°-50°	518.2	8.8
50°-60°	447.5	7.6
60°-70°	322.1	5.5
70°-80°	168.9	2.9
80°-90°	43.1	0.7
90°-100°	218.9	3.7
100°-110°	602.3	10.2
110°-120°	621.7	10.5
120°-130°	498.1	8.4
130°-140°	391.2	6.6
140°-150°	299.8	5.1
150°-160°	215.6	3.7
160°-170°	131.8	2.2
170°-180°	44.4	0.8
0°-30°	851.0	14.4
0°-40°	1371.6	23.3
0°-60°	2337.3	39.6
0°-90°	2871.5	48.7
90°-120°	1442.9	24.5
90°-150°	2632.1	44.6
90°-180°	3024.0	51.3
0°-180°	5895.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1128	1128	1128	1128	1128	
5°	1131	1118	1122	1119	1117	107
15°	1076	1063	1064	1062	1061	303
25°	984	968	966	960	963	452
35°	846	834	834	826	829	529
45°	680	674	671	669	668	525
55°	504	503	504	497	496	450
65°	319	329	335	322	311	316
75°	147	161	169	158	143	158
85°	25	33	37	35	33	33
90°	1	4	7	9	9	3
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°	1128.2	1128.2	1128.2	1128.2	1128.2
2.5°	1134.5	1125.2	1128.2	1125.6	1120.2
5°	1131.1	1118.5	1122.2	1119.2	1117.2
7.5°	1119.6	1107.9	1110.7	1107.4	1106.3
10°	1109.3	1097.6	1100.3	1096.3	1094.4
12.5°	1097.3	1084.9	1087.6	1083.6	1082.4
15°	1076.5	1062.9	1064.5	1062.5	1060.6
17.5°	1052.2	1038.4	1038.7	1035.5	1035.1
20°	1034.7	1020.1	1018.8	1014.9	1016.8
22.5°	1015.6	1000.3	998.9	993.4	996.2
25°	984.0	967.5	966.1	960.2	963.2
27.5°	947.4	931.1	931.1	922.9	926.0
30°	920.4	904.9	906.5	896.6	900.5
32.5°	891.8	877.8	878.7	868.8	872.7
35°	845.9	834.2	833.9	826.1	829.0
37.5°	798.9	788.6	787.0	782.5	783.2
40°	766.3	757.6	754.4	751.4	751.4
42.5°	732.2	724.2	721.0	718.8	718.0
45°	679.9	674.0	670.9	668.9	667.9
47.5°	628.2	622.7	620.0	618.6	617.6
50°	592.4	588.5	587.4	584.4	583.5
52.5°	556.6	554.3	553.2	549.4	548.5
55°	503.9	503.0	503.9	497.0	496.0
57.5°	449.1	450.6	453.8	444.4	442.1
60°	412.5	416.4	420.4	409.4	405.5
62.5°	375.1	381.3	387.1	374.4	369.0
65°	319.1	328.8	335.0	321.8	311.1
67.5°	265.0	277.0	284.5	270.3	258.2
70°	227.6	241.2	249.5	235.3	221.7
72.5°	195.0	210.2	216.9	203.5	189.8
75°	147.1	160.7	169.0	157.7	143.1
77.5°	104.4	117.2	124.0	114.2	102.2
80°	76.5	90.1	95.4	87.2	77.5
82.5°	54.3	65.5	69.2	64.3	57.6
85°	24.8	32.6	36.8	34.7	32.8
87.5°	6.6	12.6	16.5	16.9	17.7
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)