

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: P563398

Luminaire Tested: **SQ4-PP3-075U-075D-835-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563398
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-075U-075D-835-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

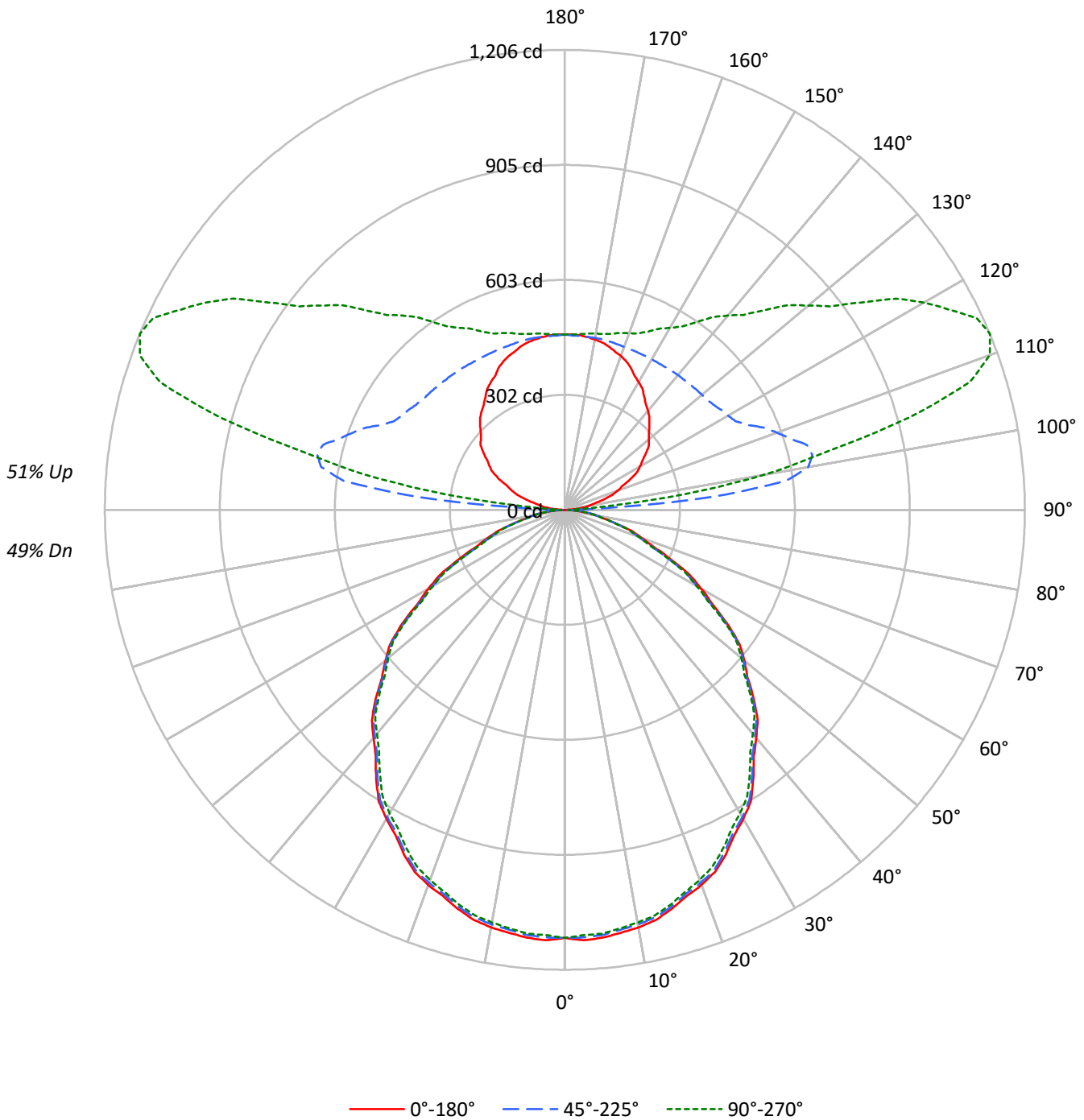
Lumens per Lamp: N/A
Luminaire Lumens: 5868.1 lumens
Efficiency: N/A
Efficacy: 138.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

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	94	90	86	90	86	83	80	73	71	68	61	59	57	49	48	47	42				
2	89	82	76	71	82	76	70	66	64	60	57	53	51	48	43	42	40	35				
3	81	72	65	59	75	67	60	55	57	52	48	47	44	41	39	36	34	30				
4	75	64	56	50	68	59	52	47	50	45	41	42	38	35	35	32	29	26				
5	68	57	49	43	63	53	46	40	45	40	35	38	34	30	31	28	26	22				
6	63	51	43	37	58	47	40	35	41	35	31	34	30	27	28	25	23	20				
7	58	46	38	33	54	43	36	31	37	31	27	31	27	24	26	23	20	18				
8	54	42	34	29	50	39	32	27	34	28	24	28	24	21	24	20	18	16				
9	50	38	31	26	46	36	29	24	31	25	22	26	22	19	22	19	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°	10356	10356	10356
5°	10433	10369	10333
10°	10415	10342	10295
15°	10346	10290	10234
20°	10278	10220	10142
25°	10156	10085	9986
30°	9967	9915	9790
35°	9707	9640	9518
40°	9397	9338	9230
45°	9140	9076	8986
50°	8812	8756	8671
55°	8356	8245	8181
60°	7606	7388	7353
65°	6702	6423	6401
70°	5786	5546	5546
75°	4980	4909	4841
80°	4389	4442	4341
85°	3440	3747	3747



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.1	1.8
10°-20°	303.1	5.2
20°-30°	454.0	7.7
30°-40°	532.5	9.1
40°-50°	534.2	9.1
50°-60°	455.7	7.8
60°-70°	297.2	5.1
70°-80°	149.1	2.5
80°-90°	42.4	0.7
90°-100°	216.8	3.7
100°-110°	596.3	10.2
110°-120°	615.5	10.5
120°-130°	493.1	8.4
130°-140°	387.3	6.6
140°-150°	296.8	5.1
150°-160°	213.4	3.6
160°-170°	130.5	2.2
170°-180°	44.0	0.7
0°-30°	863.2	14.7
0°-40°	1395.7	23.8
0°-60°	2385.6	40.7
0°-90°	2874.3	49.0
90°-120°	1428.6	24.3
90°-150°	2605.9	44.4
90°-180°	2994.0	51.0
0°-180°	5868.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1122	1122	1122	1122	1122	
5°	1126	1116	1120	1116	1116	107
15°	1083	1073	1077	1073	1071	306
25°	998	986	991	982	981	459
35°	862	853	856	846	845	538
45°	700	696	696	689	689	539
55°	520	518	513	510	509	462
65°	307	301	294	292	293	306
75°	140	140	138	137	136	152
85°	32	35	35	35	35	38
90°	1	4	7	9	9	3
95°	32	118	383	164	105	34
105°	107	164	657	1001	934	112
115°	189	230	527	1049	1191	186
125°	260	296	478	809	948	232
135°	314	348	464	654	740	242
145°	363	388	458	557	600	227
155°	411	424	455	501	515	189
165°	444	450	457	475	478	125
175°	460	460	458	463	462	44
180°	460	460	460	460	460	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1122.5	1122.5	1122.5	1122.5	1122.5
2.5°	1129.6	1120.4	1122.5	1120.9	1116.3
5°	1126.5	1115.9	1119.6	1115.7	1115.7
7.5°	1118.8	1107.3	1110.9	1107.0	1106.8
10°	1111.7	1100.2	1103.9	1099.9	1098.9
12.5°	1101.5	1090.0	1094.4	1089.7	1089.5
15°	1083.2	1072.6	1077.3	1073.3	1071.4
17.5°	1062.5	1051.0	1056.6	1051.1	1050.3
20°	1046.8	1035.3	1040.9	1033.0	1033.0
22.5°	1027.9	1016.4	1022.8	1012.6	1012.6
25°	997.6	986.1	990.7	981.8	980.9
27.5°	961.6	950.2	955.1	945.1	944.9
30°	935.6	925.0	930.7	919.9	918.9
32.5°	907.3	897.5	901.6	890.7	889.8
35°	861.8	853.2	855.9	846.1	845.1
37.5°	814.0	805.2	808.3	799.8	799.5
40°	780.2	774.4	775.3	768.3	766.4
42.5°	748.7	742.2	743.0	736.1	735.7
45°	700.5	695.7	695.6	688.7	688.7
47.5°	649.3	645.7	644.6	638.9	638.7
50°	613.9	611.0	610.0	605.0	604.1
52.5°	576.9	575.6	572.2	568.1	567.9
55°	519.5	517.5	512.6	509.6	508.6
57.5°	457.1	453.2	447.6	443.3	444.1
60°	412.2	408.4	400.4	398.5	398.5
62.5°	368.9	364.3	356.3	353.6	355.2
65°	307.0	301.2	294.2	292.2	293.2
67.5°	250.7	245.5	237.9	237.9	237.1
70°	214.5	211.6	205.6	205.6	205.6
72.5°	182.2	180.9	176.5	176.5	175.7
75°	139.7	139.7	137.7	136.7	135.8
77.5°	104.7	105.1	104.1	103.1	101.3
80°	82.6	84.6	83.6	82.6	81.7
82.5°	62.2	64.1	63.9	62.2	62.0
85°	32.5	35.4	35.4	35.4	35.4
87.5°	8.9	12.5	14.0	14.4	15.1
90°	1.0	3.8	6.8	8.8	8.8
92.5°	13.5	57.7	99.9	38.4	31.5
95°	32.3	118.3	383.3	163.9	104.6
97.5°	52.6	131.2	584.9	450.7	318.0
100°	67.5	139.2	648.3	654.3	533.9
102.5°	81.5	148.7	664.7	811.8	701.3
105°	106.6	163.9	657.1	1000.7	933.8
107.5°	130.4	182.8	619.7	1093.2	1113.1
110°	147.6	195.4	591.5	1116.2	1185.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	163.3	209.6	563.4	1101.4	1206.2
115°	188.7	229.8	527.0	1049.4	1190.9
117.5°	213.0	250.8	503.9	976.5	1136.6
120°	227.8	264.1	493.8	921.9	1087.3
122.5°	241.1	277.4	486.7	874.0	1031.0
125°	260.1	296.4	478.1	808.8	947.5
127.5°	278.1	312.7	472.5	754.5	876.1
130°	287.5	322.8	469.3	722.2	833.1
132.5°	298.4	333.8	467.0	693.8	793.9
135°	313.9	348.3	464.4	654.1	740.2
137.5°	328.3	360.3	462.3	622.1	693.0
140°	339.3	368.9	461.5	600.8	664.9
142.5°	348.7	376.0	459.9	581.8	636.7
145°	362.8	387.6	457.6	557.3	600.3
147.5°	377.8	399.2	456.4	535.6	570.0
150°	387.2	406.3	455.6	523.7	550.5
152.5°	395.8	413.4	454.9	513.4	535.6
155°	410.7	424.0	454.7	500.9	515.3
157.5°	421.4	432.3	454.7	490.7	500.6
160°	429.2	437.8	454.7	485.1	492.8
162.5°	435.5	442.6	455.4	480.4	486.5
165°	443.9	449.6	456.6	475.3	478.1
167.5°	449.8	454.2	457.6	470.9	471.7
170°	453.7	456.6	457.6	469.3	469.3
172.5°	456.8	458.2	457.6	467.0	466.2
175°	459.5	460.5	457.6	463.4	462.5
177.5°	460.3	460.3	457.2	461.9	460.3
180°	459.5	459.5	459.5	459.5	459.5

(END OF REPORT)