

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: P564743

Luminaire Tested: **SQ4-PW1-075U-075D-835-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564743
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-835-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

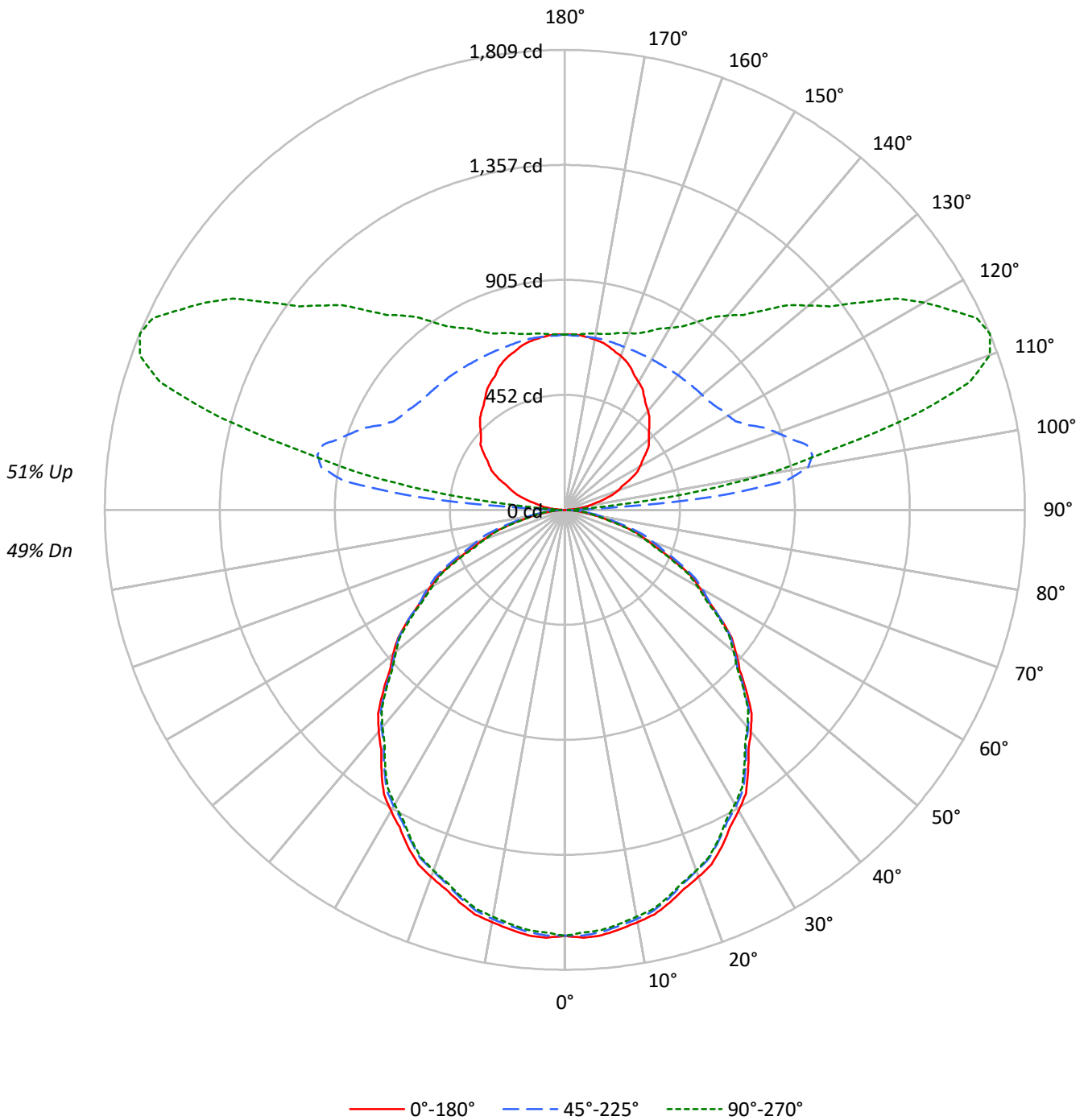
Lumens per Lamp: N/A
Luminaire Lumens: 8755.0 lumens
Efficiency: N/A
Efficacy: 128.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 68
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°	10305	10305	10305
5°	10372	10289	10244
10°	10289	10205	10150
15°	10180	10067	10029
20°	10058	9903	9884
25°	9917	9737	9707
30°	9708	9561	9498
35°	9432	9299	9244
40°	9138	8996	8960
45°	8782	8667	8628
50°	8419	8348	8291
55°	8026	8026	7899
60°	7536	7681	7408
65°	6896	7239	6724
70°	6079	6663	5920
75°	5193	5963	5052
80°	4027	5019	4077
85°	2604	3853	3437



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.8	1.8
10°-20°	445.4	5.1
20°-30°	660.7	7.5
30°-40°	773.1	8.8
40°-50°	769.6	8.8
50°-60°	664.6	7.6
60°-70°	478.4	5.5
70°-80°	250.9	2.9
80°-90°	63.9	0.7
90°-100°	325.1	3.7
100°-110°	894.5	10.2
110°-120°	923.3	10.5
120°-130°	739.7	8.4
130°-140°	581.0	6.6
140°-150°	445.2	5.1
150°-160°	320.1	3.7
160°-170°	195.7	2.2
170°-180°	66.0	0.8
0°-30°	1263.9	14.4
0°-40°	2036.9	23.3
0°-60°	3471.1	39.6
0°-90°	4264.3	48.7
90°-120°	2142.9	24.5
90°-150°	3908.8	44.6
90°-180°	4491.0	51.3
0°-180°	8755.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1675	1675	1675	1675	1675	
5°	1680	1661	1666	1662	1659	159
15°	1599	1578	1581	1578	1575	451
25°	1461	1437	1435	1426	1430	672
35°	1256	1239	1238	1227	1231	785
45°	1010	1001	996	993	992	779
55°	748	747	748	738	737	668
65°	474	488	497	478	462	470
75°	218	239	251	234	213	234
85°	37	48	55	52	49	49
90°	2	6	10	13	13	5
95°	48	178	575	246	157	51
105°	160	246	986	1501	1401	169
115°	283	345	790	1574	1786	279
125°	390	445	717	1213	1421	348
135°	471	522	697	981	1110	363
145°	544	581	686	836	900	341
155°	616	636	682	751	773	283
165°	666	674	685	713	717	188
175°	689	691	686	695	694	65
180°	689	689	689	689	689	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1675.4	1675.4	1675.4	1675.4	1675.4
2.5°	1684.8	1671.0	1675.4	1671.6	1663.6
5°	1679.8	1661.0	1666.5	1662.0	1659.1
7.5°	1662.7	1645.4	1649.4	1644.6	1642.9
10°	1647.3	1630.0	1634.0	1628.1	1625.2
12.5°	1629.6	1611.1	1615.1	1609.2	1607.5
15°	1598.6	1578.4	1580.9	1577.9	1575.0
17.5°	1562.6	1542.1	1542.5	1537.8	1537.2
20°	1536.6	1515.0	1513.0	1507.2	1510.0
22.5°	1508.3	1485.5	1483.5	1475.3	1479.3
25°	1461.3	1436.8	1434.8	1426.0	1430.3
27.5°	1407.0	1382.8	1382.8	1370.5	1375.1
30°	1366.9	1343.8	1346.2	1331.6	1337.3
32.5°	1324.4	1303.6	1304.9	1290.2	1296.0
35°	1256.2	1238.8	1238.4	1226.7	1231.1
37.5°	1186.5	1171.2	1168.8	1162.0	1163.2
40°	1138.1	1125.1	1120.4	1115.9	1115.9
42.5°	1087.3	1075.5	1070.8	1067.5	1066.3
45°	1009.6	1001.0	996.4	993.4	991.9
47.5°	932.9	924.8	920.8	918.7	917.2
50°	879.8	874.0	872.4	867.9	866.5
52.5°	826.6	823.1	821.6	816.0	814.5
55°	748.4	746.9	748.4	738.0	736.6
57.5°	666.9	669.2	674.0	660.0	656.6
60°	612.6	618.4	624.4	608.0	602.2
62.5°	557.1	566.3	574.8	556.0	547.9
65°	473.8	488.3	497.4	477.9	462.0
67.5°	393.5	411.4	422.5	401.4	383.5
70°	338.0	358.2	370.5	349.4	329.2
72.5°	289.6	312.1	322.1	302.1	281.9
75°	218.5	238.7	250.9	234.2	212.6
77.5°	155.0	174.0	184.2	169.6	151.7
80°	113.7	133.9	141.7	129.6	115.1
82.5°	80.6	97.3	102.7	95.4	85.6
85°	36.9	48.4	54.6	51.6	48.7
87.5°	9.7	18.7	24.5	25.1	26.3
90°	1.5	5.8	10.3	13.2	13.2
92.5°	20.2	86.5	149.9	57.6	47.2
95°	48.4	177.5	574.9	245.8	156.9
97.5°	78.9	196.8	877.3	676.0	477.0
100°	101.2	208.8	972.4	981.5	800.8
102.5°	122.3	223.0	997.0	1217.7	1051.9
105°	159.9	245.9	985.6	1501.0	1400.6
107.5°	195.7	274.2	929.6	1639.8	1669.6
110°	221.5	293.2	887.3	1674.3	1777.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	244.9	314.3	845.1	1652.1	1809.3
115°	283.1	344.7	790.5	1574.1	1786.4
117.5°	319.4	376.2	755.9	1464.8	1704.8
120°	341.7	396.2	740.7	1382.8	1630.9
122.5°	361.7	416.2	730.1	1311.0	1546.4
125°	390.1	444.6	717.2	1213.2	1421.2
127.5°	417.1	469.0	708.7	1131.7	1314.1
130°	431.2	484.3	704.0	1083.2	1249.6
132.5°	447.6	500.7	700.5	1040.6	1190.9
135°	470.8	522.4	696.7	981.2	1110.3
137.5°	492.5	540.4	693.4	933.2	1039.6
140°	508.9	553.4	692.3	901.2	997.3
142.5°	523.0	564.0	689.9	872.8	955.1
145°	544.1	581.4	686.4	836.0	900.5
147.5°	566.7	598.8	684.6	803.4	855.1
150°	580.8	609.5	683.5	785.6	825.7
152.5°	593.7	620.1	682.3	770.2	803.4
155°	616.0	636.1	682.0	751.4	772.9
157.5°	632.1	648.5	682.0	736.0	750.9
160°	643.9	656.8	682.0	727.7	739.2
162.5°	653.2	663.9	683.2	720.6	729.8
165°	665.9	674.5	684.9	712.9	717.2
167.5°	674.7	681.3	686.4	706.4	707.5
170°	680.5	684.8	686.4	704.0	704.0
172.5°	685.2	687.2	686.4	700.4	699.3
175°	689.3	690.8	686.4	695.2	693.7
177.5°	690.5	690.5	685.8	692.8	690.5
180°	689.3	689.3	689.3	689.3	689.3

(END OF REPORT)