

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: P565126

Luminaire Tested: **SQ4-PW1-150U-075D-835-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P565126
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, 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-PW1-150U-075D-835-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

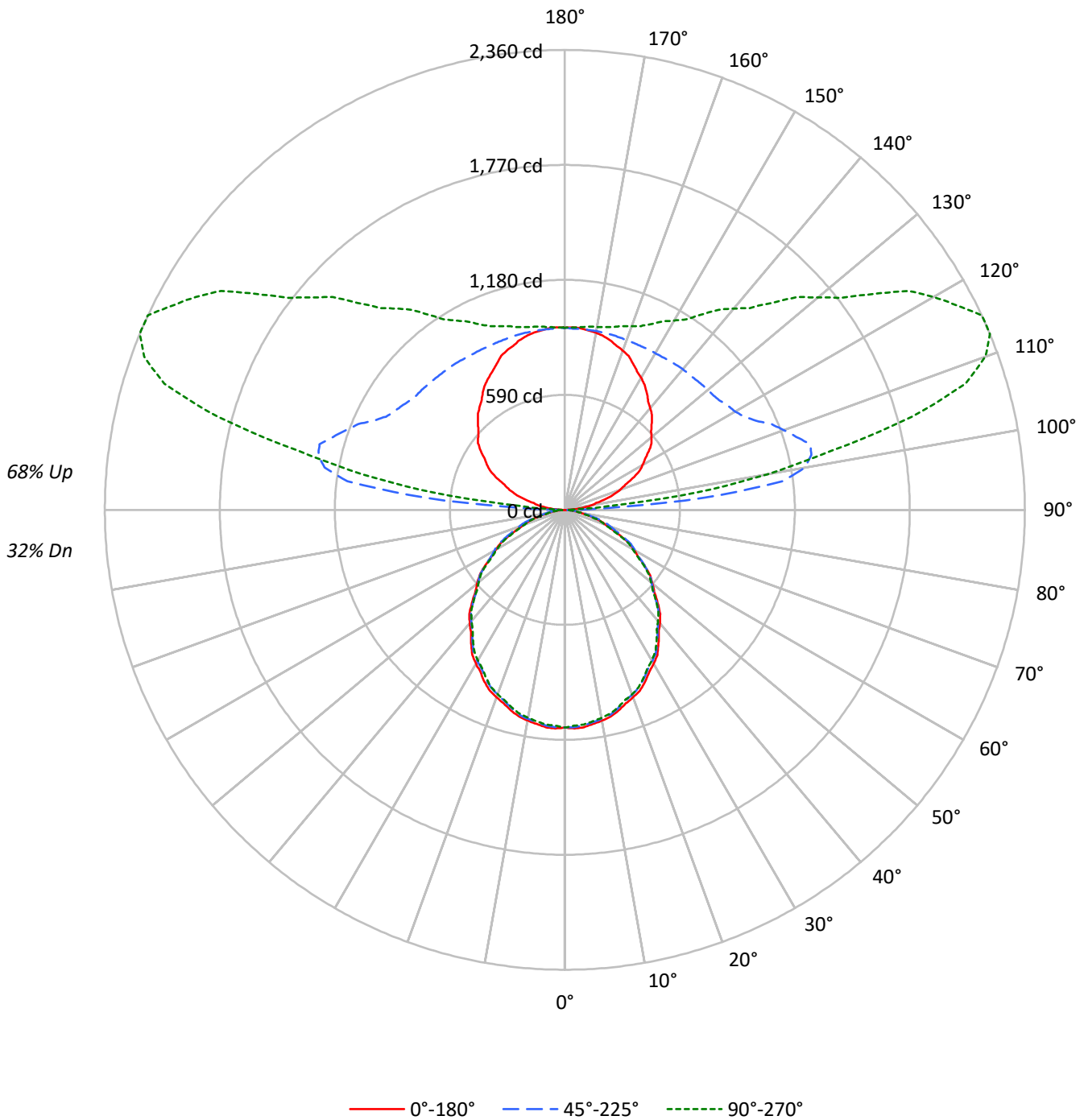
Lumens per Lamp: N/A
Luminaire Lumens: 8867.6 lumens
Efficiency: N/A
Efficacy: 139.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 63.5
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	103	103	103	103	93	93	93	93	73	73	73	56	56	56	40	40	40	32				
1	94	90	86	83	84	81	78	75	64	62	60	49	48	46	35	34	34	27				
2	85	78	72	67	77	71	66	61	56	53	50	43	41	39	31	30	28	23				
3	78	69	62	56	70	62	56	51	50	45	42	38	35	33	27	26	24	19				
4	71	61	53	47	64	55	48	43	44	39	36	34	31	28	25	22	21	17				
5	65	54	46	40	59	49	42	37	39	34	31	30	27	24	22	20	18	14				
6	60	48	41	35	54	44	37	32	35	30	27	27	24	21	20	18	16	13				
7	55	44	36	30	50	40	33	28	32	27	23	25	21	19	18	16	14	11				
8	51	39	32	27	46	36	29	25	29	24	21	23	19	17	17	14	13	10				
9	48	36	29	24	43	33	26	22	27	22	18	21	17	15	15	13	11	9				
10	44	33	26	21	40	30	24	20	24	20	16	19	16	13	14	12	10	8				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10305	10305	10305
5°	10372	10289	10244
10°	10289	10206	10151
15°	10179	10067	10029
20°	10058	9904	9884
25°	9917	9737	9708
30°	9707	9562	9499
35°	9432	9299	9244
40°	9138	8996	8961
45°	8782	8666	8629
50°	8418	8348	8291
55°	8025	8025	7898
60°	7536	7682	7409
65°	6896	7239	6724
70°	6080	6663	5918
75°	5190	5964	5051
80°	4027	5021	4081
85°	2604	3853	3440



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.2	1.2
10°-20°	296.9	3.3
20°-30°	440.5	5.0
30°-40°	515.4	5.8
40°-50°	513.1	5.8
50°-60°	443.1	5.0
60°-70°	318.9	3.6
70°-80°	167.2	1.9
80°-90°	43.4	0.5
90°-100°	434.2	4.9
100°-110°	1174.0	13.2
110°-120°	1234.3	13.9
120°-130°	1002.6	11.3
130°-140°	786.5	8.9
140°-150°	603.6	6.8
150°-160°	434.1	4.9
160°-170°	265.2	3.0
170°-180°	89.4	1.0
0°-30°	842.6	9.5
0°-40°	1357.9	15.3
0°-60°	2314.1	26.1
0°-90°	2843.7	32.1
90°-120°	2842.6	32.1
90°-150°	5235.3	59.0
90°-180°	6024.0	67.9
0°-180°	8867.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1117	1117	1117	1117	1117	
5°	1120	1107	1111	1108	1106	106
15°	1066	1052	1054	1052	1050	300
25°	974	958	956	951	954	448
35°	837	826	826	818	821	524
45°	673	667	664	662	661	519
55°	499	498	499	492	491	445
65°	316	326	332	319	308	313
75°	146	159	167	156	142	156
85°	25	32	36	34	32	32
90°	2	6	13	14	13	5
95°	67	236	722	374	222	71
105°	218	337	1302	1921	1842	230
115°	384	470	1080	2091	2360	379
125°	526	603	974	1643	1930	469
135°	631	705	947	1326	1502	487
145°	733	788	934	1135	1222	459
155°	828	860	926	1019	1052	382
165°	901	910	930	967	972	254
175°	935	934	931	943	941	89
180°	934	934	934	934	934	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1116.9	1116.9	1116.9	1116.9	1116.9
2.5°	1123.2	1114.0	1116.9	1114.4	1109.0
5°	1119.9	1107.4	1111.0	1108.0	1106.1
7.5°	1108.4	1096.9	1099.6	1096.4	1095.3
10°	1098.2	1086.7	1089.4	1085.4	1083.5
12.5°	1086.4	1074.1	1076.8	1072.8	1071.6
15°	1065.7	1052.3	1053.9	1051.9	1050.0
17.5°	1041.7	1028.1	1028.3	1025.2	1024.8
20°	1024.4	1010.0	1008.7	1004.8	1006.7
22.5°	1005.5	990.3	989.0	983.5	986.2
25°	974.2	957.9	956.5	950.7	953.6
27.5°	938.0	921.8	921.9	913.7	916.8
30°	911.2	895.8	897.5	887.7	891.6
32.5°	882.9	869.0	869.9	860.2	864.0
35°	837.4	825.9	825.6	817.8	820.7
37.5°	791.0	780.8	779.2	774.7	775.4
40°	758.7	750.1	746.9	744.0	744.0
42.5°	724.9	717.0	713.8	711.7	710.9
45°	673.1	667.3	664.2	662.3	661.3
47.5°	621.9	616.5	613.9	612.5	611.5
50°	586.5	582.7	581.6	578.6	577.6
52.5°	551.1	548.8	547.7	544.0	543.0
55°	498.9	498.0	498.9	492.0	491.0
57.5°	444.6	446.1	449.3	440.0	437.7
60°	408.4	412.2	416.3	405.3	401.5
62.5°	371.4	377.5	383.2	370.7	365.3
65°	315.9	325.5	331.6	318.6	308.0
67.5°	262.4	274.3	281.6	267.6	255.7
70°	225.4	238.8	247.0	232.9	219.4
72.5°	193.1	208.1	214.7	201.4	188.0
75°	145.6	159.1	167.3	156.1	141.7
77.5°	103.3	116.0	122.8	113.1	101.2
80°	75.8	89.2	94.5	86.4	76.8
82.5°	53.7	64.9	68.5	63.6	57.1
85°	24.6	32.3	36.4	34.4	32.5
87.5°	6.7	12.9	17.6	17.8	18.4
90°	2.0	5.9	13.1	14.1	13.1
92.5°	28.6	104.1	205.4	89.2	64.6
95°	67.4	236.5	722.1	373.7	222.3
97.5°	108.2	271.3	1125.6	931.5	684.1
100°	138.8	285.3	1251.1	1304.8	1055.0
102.5°	167.0	304.8	1295.4	1587.8	1401.0
105°	218.2	337.2	1302.4	1921.2	1842.5
107.5°	265.7	374.3	1245.5	2129.1	2155.3
110°	302.7	401.1	1194.8	2185.0	2296.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	335.7	427.8	1148.1	2173.8	2360.5
115°	384.2	469.7	1080.2	2091.0	2360.5
117.5°	431.7	511.9	1035.3	1964.5	2269.9
120°	460.6	539.3	1008.8	1873.7	2185.5
122.5°	488.0	565.1	992.7	1776.4	2090.5
125°	526.0	602.7	973.6	1642.9	1930.0
127.5°	561.0	636.3	962.3	1533.9	1786.4
130°	580.3	658.0	957.5	1466.5	1694.7
132.5°	600.4	677.3	952.6	1405.8	1615.8
135°	630.6	705.3	947.4	1326.5	1501.6
137.5°	661.0	731.6	943.0	1262.2	1404.8
140°	681.9	747.8	941.4	1220.8	1347.7
142.5°	702.0	764.0	938.1	1183.5	1294.6
145°	733.2	788.2	934.3	1135.4	1222.0
147.5°	761.5	810.3	929.9	1091.9	1158.4
150°	782.5	825.7	928.3	1068.3	1121.4
152.5°	801.8	839.5	927.5	1046.4	1090.0
155°	827.7	860.2	926.3	1018.6	1052.0
157.5°	854.7	877.3	926.5	999.2	1021.2
160°	870.0	888.6	927.3	987.0	1002.7
162.5°	882.0	897.6	928.1	977.2	989.0
165°	901.1	910.0	930.3	966.6	971.5
167.5°	914.2	920.3	930.5	957.5	959.9
170°	922.3	925.2	931.3	953.4	953.4
172.5°	928.7	929.3	931.3	948.6	947.8
175°	935.3	934.3	931.3	943.3	941.4
177.5°	937.5	935.2	931.1	939.1	936.7
180°	934.3	934.3	934.3	934.3	934.3

(END OF REPORT)