

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: P562467

Luminaire Tested: **SQ4-PW1-150U-075D-92765-1D-UNV-STD-W-4 (3000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562467
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, 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-92765-1D-UNV-STD-W-4 (3000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

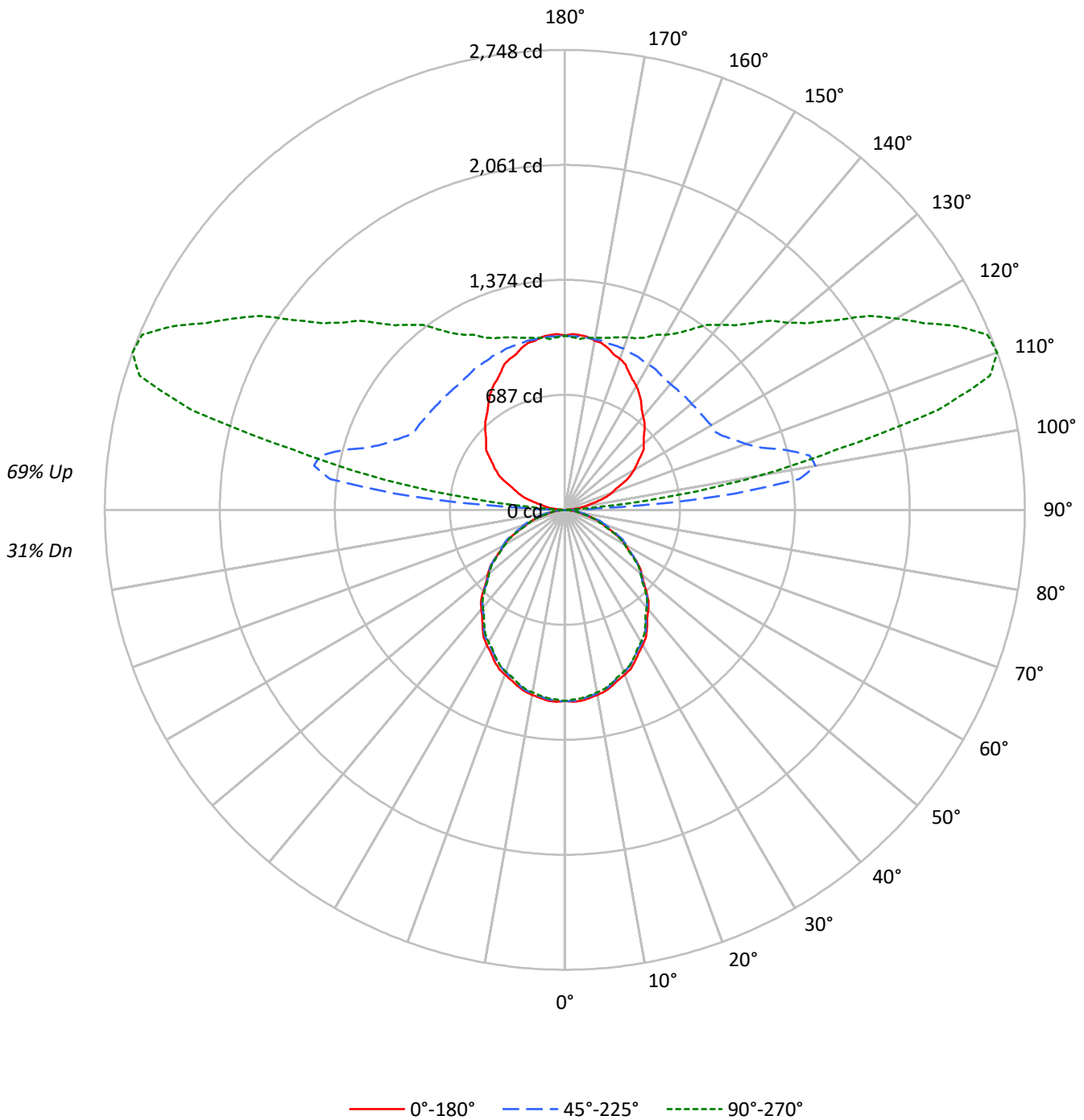
Lumens per Lamp: N/A
Luminaire Lumens: 9368.8 lumens
Efficiency: N/A
Efficacy: 112.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 83.1
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	103	103	103	103	92	92	92	92	73	73	73	55	55	55	39	39	39	31
1	94	89	86	82	84	81	77	75	64	62	60	48	47	46	34	33	33	26
2	85	78	72	67	76	70	65	61	56	52	49	43	40	38	30	29	28	22
3	78	69	62	56	70	62	56	51	49	45	42	38	35	32	27	25	24	19
4	71	61	53	47	64	55	48	43	44	39	35	33	30	28	24	22	20	16
5	65	54	46	40	58	49	42	37	39	34	30	30	27	24	22	19	18	14
6	60	48	40	35	54	44	37	32	35	30	26	27	24	21	20	17	16	12
7	55	43	36	30	50	39	33	28	32	27	23	25	21	18	18	16	14	11
8	51	39	32	27	46	36	29	25	29	24	20	22	19	16	16	14	12	10
9	48	36	29	24	43	33	26	22	26	22	18	21	17	15	15	13	11	9
10	44	33	26	21	40	30	24	19	24	20	16	19	16	13	14	12	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10535	10535	10535
5°	10604	10520	10474
10°	10519	10435	10378
15°	10407	10293	10254
20°	10284	10126	10106
25°	10140	9955	9924
30°	9926	9776	9711
35°	9643	9507	9451
40°	9342	9197	9161
45°	8980	8861	8822
50°	8606	8535	8477
55°	8205	8205	8076
60°	7704	7853	7575
65°	7051	7403	6875
70°	6215	6811	6053
75°	5308	6096	5165
80°	4118	5133	4171
85°	2668	3938	3515



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.5	1.1
10°-20°	303.6	3.2
20°-30°	450.3	4.8
30°-40°	526.9	5.6
40°-50°	524.6	5.6
50°-60°	453.0	4.8
60°-70°	326.1	3.5
70°-80°	171.0	1.8
80°-90°	42.4	0.5
90°-100°	474.1	5.1
100°-110°	1349.1	14.4
110°-120°	1292.6	13.8
120°-130°	1023.0	10.9
130°-140°	821.1	8.8
140°-150°	642.8	6.9
150°-160°	470.4	5.0
160°-170°	291.4	3.1
170°-180°	98.9	1.1
0°-30°	861.5	9.2
0°-40°	1388.4	14.8
0°-60°	2365.9	25.3
0°-90°	2905.4	31.0
90°-120°	3115.8	33.3
90°-150°	5602.8	59.8
90°-180°	6463.0	69.0
0°-180°	9368.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1142	1142	1142	1142	1142	
5°	1145	1132	1136	1133	1131	108
15°	1090	1076	1078	1076	1074	307
25°	996	979	978	972	975	458
35°	856	844	844	836	839	535
45°	688	682	679	677	676	531
55°	510	509	510	503	502	455
65°	323	333	339	326	315	320
75°	149	163	171	160	145	160
85°	25	33	37	35	33	33
90°	0	0	0	0	0	3
95°	51	204	918	318	196	59
105°	210	318	1375	2428	2308	222
115°	390	471	1042	2208	2593	384
125°	550	610	995	1651	1974	492
135°	673	729	983	1395	1577	519
145°	793	834	991	1207	1316	496
155°	906	927	1015	1091	1136	419
165°	1001	1005	1027	1049	1064	281
175°	1048	1043	1038	1032	1025	99
180°	1040	1040	1040	1040	1040	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1141.9	1141.9	1141.9	1141.9	1141.9
2.5°	1148.4	1138.9	1141.9	1139.4	1133.9
5°	1145.0	1132.2	1135.9	1132.8	1130.9
7.5°	1133.3	1121.5	1124.2	1121.0	1119.8
10°	1122.8	1111.0	1113.8	1109.7	1107.7
12.5°	1110.8	1098.2	1100.9	1096.8	1095.7
15°	1089.6	1075.9	1077.6	1075.5	1073.5
17.5°	1065.1	1051.1	1051.4	1048.2	1047.8
20°	1047.4	1032.6	1031.3	1027.3	1029.3
22.5°	1028.1	1012.5	1011.2	1005.6	1008.3
25°	996.1	979.3	977.9	972.0	974.9
27.5°	959.0	942.5	942.5	934.2	937.3
30°	931.7	915.9	917.6	907.6	911.5
32.5°	902.7	888.5	889.4	879.4	883.4
35°	856.2	844.4	844.1	836.2	839.1
37.5°	808.7	798.3	796.6	792.0	792.8
40°	775.7	766.9	763.6	760.6	760.6
42.5°	741.1	733.0	729.8	727.6	726.8
45°	688.2	682.3	679.1	677.1	676.1
47.5°	635.9	630.4	627.6	626.2	625.2
50°	599.6	595.7	594.6	591.6	590.6
52.5°	563.4	561.1	560.0	556.2	555.2
55°	510.1	509.1	510.1	503.0	502.1
57.5°	454.6	456.1	459.4	449.9	447.5
60°	417.5	421.5	425.6	414.4	410.5
62.5°	379.7	386.0	391.8	379.0	373.5
65°	323.0	332.8	339.1	325.7	314.9
67.5°	268.2	280.4	288.0	273.6	261.4
70°	230.4	244.2	252.5	238.1	224.4
72.5°	197.4	212.7	219.5	205.9	192.2
75°	148.9	162.7	171.0	159.6	144.9
77.5°	105.6	118.6	125.6	115.6	103.4
80°	77.5	91.2	96.6	88.3	78.5
82.5°	54.9	66.3	70.0	65.0	58.4
85°	25.2	33.0	37.2	35.2	33.2
87.5°	6.4	11.9	15.3	15.3	16.1
90°	0.0	0.0	0.0	0.0	0.0
92.5°	15.8	83.9	194.7	56.7	42.7
95°	51.4	204.2	917.9	317.7	195.8
97.5°	94.6	239.2	1413.6	1011.5	693.2
100°	124.6	260.0	1521.2	1540.9	1186.9
102.5°	157.9	282.4	1497.5	1972.3	1663.2
105°	209.7	318.0	1374.8	2428.4	2308.5
107.5°	262.3	359.4	1231.6	2557.0	2663.8
110°	298.7	389.6	1149.3	2507.8	2747.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	333.5	419.8	1093.9	2391.5	2733.4
115°	389.7	470.9	1042.5	2208.5	2593.4
117.5°	439.2	515.4	1012.0	2008.4	2416.1
120°	478.7	542.5	1008.9	1894.1	2284.8
122.5°	510.4	574.2	1001.0	1793.7	2156.6
125°	549.9	609.9	995.0	1651.2	1974.2
127.5°	593.1	649.1	991.9	1566.0	1832.2
130°	615.2	671.3	987.1	1506.7	1738.8
132.5°	638.9	693.5	987.1	1460.4	1673.9
135°	672.6	728.7	983.2	1394.8	1576.6
137.5°	704.2	758.8	982.8	1339.2	1496.3
140°	728.0	784.1	981.2	1293.2	1444.1
142.5°	754.9	801.7	985.9	1256.4	1391.8
145°	793.2	833.9	991.1	1207.2	1315.5
147.5°	826.1	865.5	999.8	1157.4	1251.0
150°	854.6	881.6	1002.9	1140.9	1206.7
152.5°	876.7	905.4	1006.1	1118.7	1179.8
155°	906.0	927.3	1014.8	1091.0	1135.5
157.5°	942.4	955.2	1016.8	1078.4	1110.1
160°	961.4	971.1	1024.7	1068.8	1095.9
162.5°	972.5	983.7	1026.3	1060.8	1081.7
165°	1001.0	1004.8	1026.7	1048.8	1064.3
167.5°	1020.3	1016.9	1035.8	1045.8	1052.0
170°	1026.7	1024.7	1032.6	1034.8	1042.5
172.5°	1040.9	1034.3	1037.4	1031.6	1037.7
175°	1048.4	1042.6	1038.5	1032.4	1024.7
177.5°	1051.6	1042.3	1037.4	1031.1	1032.6
180°	1040.5	1040.5	1040.5	1040.5	1040.5

(END OF REPORT)