

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: P562455

Luminaire Tested: **SQ4-PW1-150U-050D-92765-1D-UNV-STD-W-4 (3500K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562455
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-050D-92765-1D-UNV-STD-W-4 (3500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

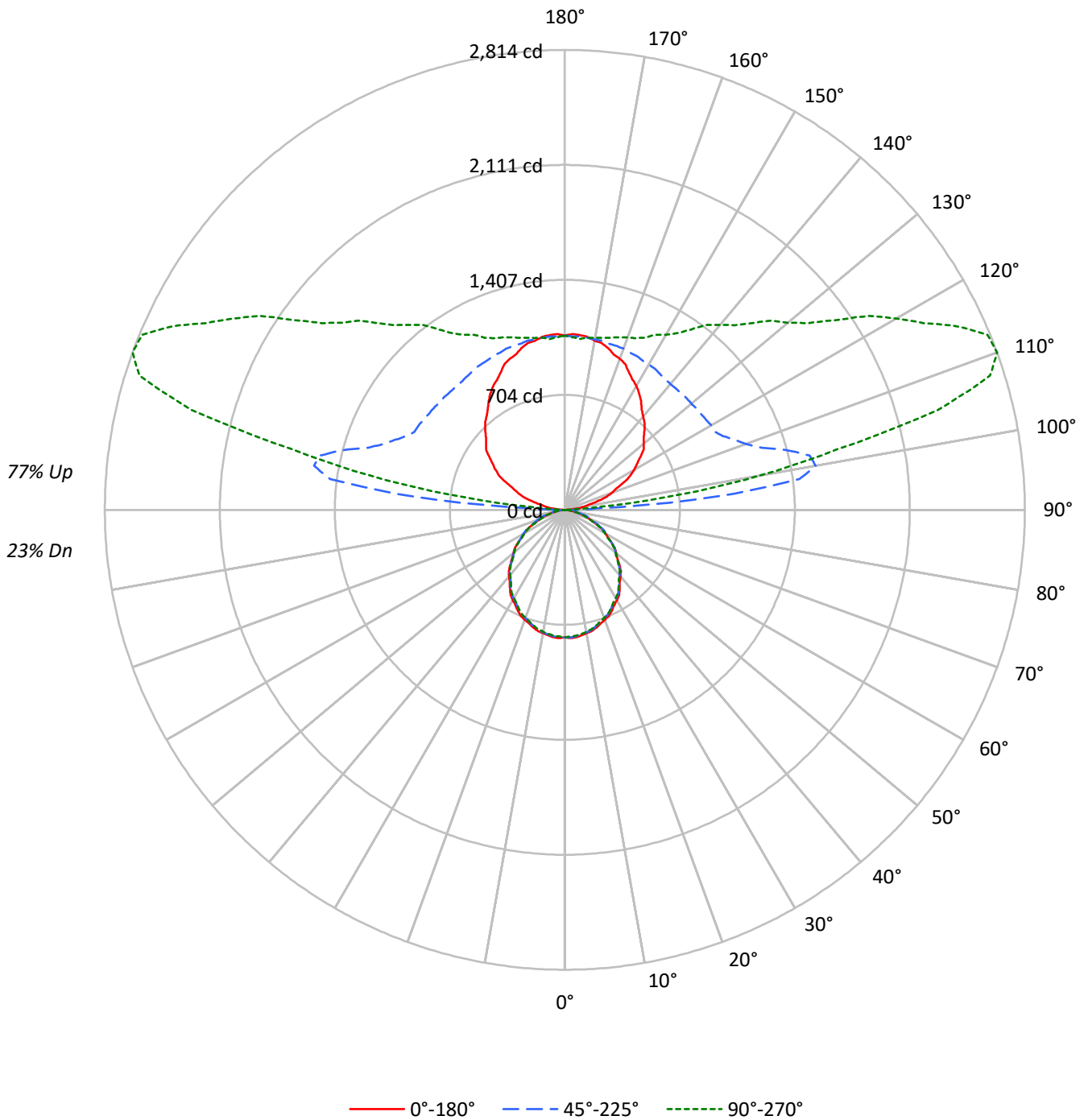
Lumens per Lamp: N/A
Luminaire Lumens: 8605.1 lumens
Efficiency: N/A
Efficacy: 119.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 71.9
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	101	101	101	101	89	89	89	89	68	68	68	49	49	49	31	31	31	23
1	92	88	84	81	81	78	75	72	60	58	56	43	42	41	28	27	27	20
2	84	77	71	66	74	68	63	59	52	49	46	38	36	34	24	23	22	16
3	76	67	60	55	67	60	54	49	46	42	39	33	31	29	22	20	19	14
4	70	59	52	46	62	53	47	42	41	37	33	30	27	25	19	18	16	12
5	64	53	45	39	56	47	41	36	37	32	28	27	24	21	17	16	14	10
6	59	47	39	34	52	42	36	31	33	28	25	24	21	18	16	14	13	9
7	54	42	35	29	48	38	31	27	30	25	21	22	19	16	14	13	11	8
8	50	38	31	26	44	34	28	24	27	22	19	20	17	14	13	11	10	7
9	46	35	28	23	41	31	25	21	24	20	17	18	15	13	12	10	9	7
10	43	32	25	20	38	29	23	18	22	18	15	17	14	11	11	9	8	6

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7204	7204	7204
5°	7251	7193	7161
10°	7192	7134	7096
15°	7116	7038	7011
20°	7031	6923	6910
25°	6933	6807	6786
30°	6786	6684	6640
35°	6593	6501	6462
40°	6388	6288	6264
45°	6139	6059	6032
50°	5885	5836	5796
55°	5611	5611	5522
60°	5268	5370	5180
65°	4820	5060	4700
70°	4249	4659	4138
75°	3629	4167	3533
80°	2816	3507	2853
85°	1821	2699	2403



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.5	0.9
10°-20°	207.6	2.4
20°-30°	307.9	3.6
30°-40°	360.3	4.2
40°-50°	358.7	4.2
50°-60°	309.7	3.6
60°-70°	223.0	2.6
70°-80°	116.9	1.4
80°-90°	29.0	0.3
90°-100°	485.5	5.6
100°-110°	1381.5	16.1
110°-120°	1323.6	15.4
120°-130°	1047.6	12.2
130°-140°	840.8	9.8
140°-150°	658.3	7.6
150°-160°	481.7	5.6
160°-170°	298.3	3.5
170°-180°	101.2	1.2
0°-30°	589.0	6.8
0°-40°	949.3	11.0
0°-60°	1617.7	18.8
0°-90°	1986.6	23.1
90°-120°	3190.6	37.1
90°-150°	5737.2	66.7
90°-180°	6618.0	76.9
0°-180°	8605.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	781	781	781	781	781	
5°	783	774	777	775	773	74
15°	745	736	737	735	734	210
25°	681	670	669	665	667	313
35°	585	577	577	572	574	366
45°	470	466	464	463	462	363
55°	349	348	349	344	343	311
65°	221	228	232	223	215	219
75°	102	111	117	109	99	109
85°	17	23	26	24	23	23
90°	0	0	0	0	0	3
95°	53	209	940	325	200	60
105°	215	326	1408	2487	2364	227
115°	399	482	1068	2262	2656	393
125°	563	624	1019	1691	2022	504
135°	689	746	1007	1428	1614	531
145°	812	854	1015	1236	1347	507
155°	928	950	1039	1117	1163	429
165°	1025	1029	1051	1074	1090	288
175°	1074	1068	1064	1057	1049	102
180°	1066	1066	1066	1066	1066	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	780.8	780.8	780.8	780.8	780.8
2.5°	785.2	778.7	780.8	779.1	775.3
5°	782.9	774.1	776.7	774.6	773.2
7.5°	774.9	766.8	768.7	766.5	765.7
10°	767.7	759.7	761.5	758.8	757.4
12.5°	759.5	750.9	752.7	750.0	749.2
15°	745.0	735.6	736.8	735.4	734.0
17.5°	728.2	718.7	718.9	716.7	716.4
20°	716.1	706.0	705.1	702.4	703.8
22.5°	702.9	692.3	691.4	687.6	689.4
25°	681.0	669.6	668.7	664.6	666.6
27.5°	655.7	644.4	644.5	638.7	640.9
30°	637.0	626.3	627.4	620.6	623.3
32.5°	617.2	607.5	608.1	601.3	604.0
35°	585.4	577.4	577.2	571.7	573.7
37.5°	553.0	545.8	544.7	541.5	542.1
40°	530.4	524.3	522.1	520.1	520.1
42.5°	506.7	501.2	499.0	497.5	497.0
45°	470.5	466.5	464.4	463.0	462.3
47.5°	434.8	431.0	429.1	428.2	427.5
50°	410.0	407.3	406.6	404.5	403.8
52.5°	385.2	383.6	382.9	380.3	379.6
55°	348.8	348.1	348.8	343.9	343.3
57.5°	310.8	311.9	314.1	307.6	306.0
60°	285.5	288.2	291.0	283.4	280.7
62.5°	259.6	263.9	267.9	259.1	255.4
65°	220.8	227.6	231.8	222.7	215.3
67.5°	183.4	191.7	196.9	187.1	178.7
70°	157.5	167.0	172.7	162.8	153.4
72.5°	135.0	145.5	150.1	140.8	131.4
75°	101.8	111.2	116.9	109.2	99.1
77.5°	72.2	81.1	85.9	79.1	70.7
80°	53.0	62.4	66.0	60.4	53.7
82.5°	37.6	45.4	47.9	44.5	39.9
85°	17.2	22.6	25.5	24.0	22.7
87.5°	4.4	8.2	10.5	10.5	11.0
90°	0.0	0.0	0.0	0.0	0.0
92.5°	16.2	85.9	199.3	58.0	43.8
95°	52.7	209.1	939.9	325.3	200.5
97.5°	96.8	245.0	1447.5	1035.8	709.8
100°	127.6	266.3	1557.7	1577.8	1215.4
102.5°	161.6	289.2	1533.4	2019.7	1703.2
105°	214.7	325.6	1407.8	2486.7	2363.9
107.5°	268.6	368.0	1261.2	2618.4	2727.7
110°	305.9	399.0	1176.9	2568.0	2813.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	341.5	429.9	1120.2	2448.9	2799.0
115°	399.1	482.2	1067.5	2261.5	2655.6
117.5°	449.7	527.7	1036.3	2056.6	2474.1
120°	490.2	555.6	1033.1	1939.5	2339.6
122.5°	522.6	588.0	1025.0	1836.8	2208.4
125°	563.1	624.5	1018.9	1690.8	2021.6
127.5°	607.3	664.7	1015.7	1603.6	1876.1
130°	630.0	687.4	1010.8	1542.9	1780.5
132.5°	654.3	710.1	1010.8	1495.4	1714.1
135°	688.7	746.2	1006.7	1428.3	1614.4
137.5°	721.1	777.0	1006.3	1371.4	1532.2
140°	745.4	802.9	1004.7	1324.2	1478.7
142.5°	773.0	820.9	1009.6	1286.6	1425.2
145°	812.3	853.9	1014.8	1236.1	1347.0
147.5°	845.9	886.3	1023.8	1185.2	1281.0
150°	875.1	902.8	1027.0	1168.3	1235.6
152.5°	897.8	927.1	1030.2	1145.5	1208.1
155°	927.7	949.5	1039.2	1117.2	1162.7
157.5°	965.0	978.1	1041.2	1104.3	1136.8
160°	984.5	994.4	1049.3	1094.5	1122.2
162.5°	995.8	1007.3	1050.9	1086.2	1107.6
165°	1025.0	1028.9	1051.3	1073.9	1089.8
167.5°	1044.8	1041.3	1060.6	1070.9	1077.2
170°	1051.3	1049.3	1057.4	1059.6	1067.5
172.5°	1065.9	1059.2	1062.2	1056.3	1062.6
175°	1073.6	1067.6	1063.5	1057.2	1049.3
177.5°	1076.8	1067.3	1062.2	1055.8	1057.4
180°	1065.5	1065.5	1065.5	1065.5	1065.5

(END OF REPORT)