

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: P562274

Luminaire Tested: **SQ4-PW1-075U-100D-92765-1D-UNV-STD-W-4 (4000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562274
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-PW1-075U-100D-92765-1D-UNV-STD-W-4 (4000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

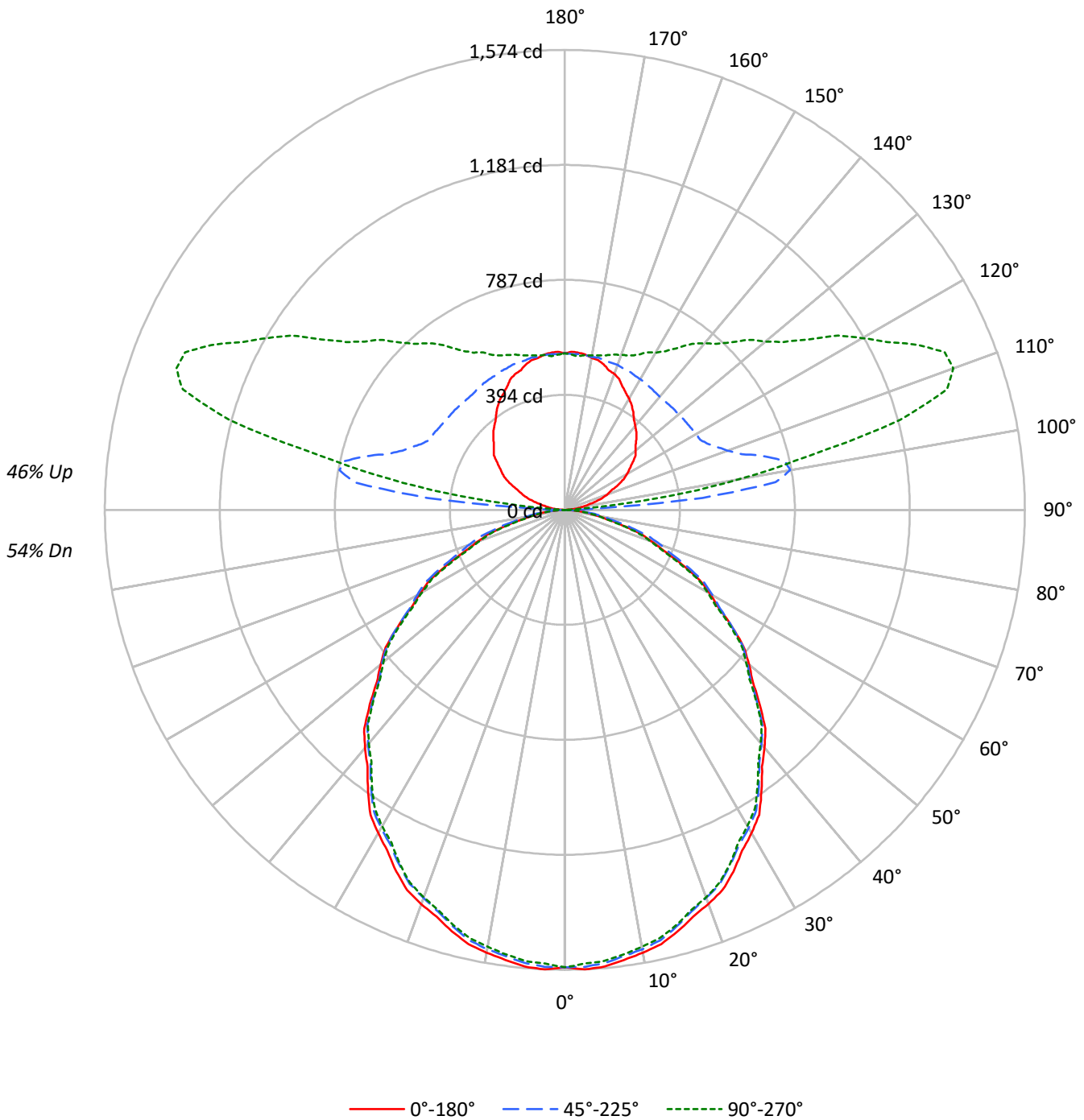
Lumens per Lamp: N/A
Luminaire Lumens: 7309.7 lumens
Efficiency: N/A
Efficacy: 110.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 66.1
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				
RC	80					70					50					30				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																				
0	108	108	108	108	100	100	100	100	86	86	86	72	72	72	60	60	60	54		
1	99	95	91	87	92	88	85	82	75	73	71	64	62	61	53	52	51	46		
2	90	83	77	71	83	77	72	67	66	62	59	56	53	51	47	45	43	39		
3	82	73	65	60	76	68	61	56	58	54	49	50	46	43	42	39	37	33		
4	75	64	57	50	70	60	53	48	52	47	42	44	40	37	37	34	32	28		
5	69	57	49	43	64	54	46	41	47	41	36	40	36	32	34	30	28	25		
6	64	52	43	38	59	48	41	36	42	36	32	36	32	28	31	27	24	22		
7	59	47	39	33	55	44	36	31	38	32	28	33	28	25	28	24	22	19		
8	55	42	35	29	51	40	33	28	35	29	25	30	26	22	26	22	19	17		
9	51	39	31	26	47	36	30	25	32	26	22	28	23	20	24	20	18	15		
10	48	35	28	23	44	33	27	22	29	24	20	26	21	18	22	19	16	14		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14442	14442	14442
5°	14536	14420	14356
10°	14419	14303	14225
15°	14266	14108	14055
20°	14096	13879	13853
25°	13899	13646	13605
30°	13606	13400	13312
35°	13218	13033	12955
40°	12806	12608	12557
45°	12308	12146	12093
50°	11799	11699	11621
55°	11247	11247	11070
60°	10560	10765	10383
65°	9665	10147	9424
70°	8519	9339	8295
75°	7276	8359	7080
80°	5643	7035	5717
85°	3652	5399	4817



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.4	2.0
10°-20°	416.1	5.7
20°-30°	617.3	8.4
30°-40°	722.3	9.9
40°-50°	719.1	9.8
50°-60°	620.9	8.5
60°-70°	447.0	6.1
70°-80°	234.4	3.2
80°-90°	58.1	0.8
90°-100°	244.1	3.3
100°-110°	694.5	9.5
110°-120°	665.4	9.1
120°-130°	526.6	7.2
130°-140°	422.7	5.8
140°-150°	330.9	4.5
150°-160°	242.1	3.3
160°-170°	150.0	2.1
170°-180°	50.9	0.7
0°-30°	1180.8	16.2
0°-40°	1903.1	26.0
0°-60°	3243.1	44.4
0°-90°	3982.6	54.5
90°-120°	1603.9	21.9
90°-150°	2884.1	39.5
90°-180°	3327.0	45.5
0°-180°	7309.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1565	1565	1565	1565	1565	
5°	1570	1552	1557	1553	1550	149
15°	1494	1475	1477	1474	1472	421
25°	1365	1342	1340	1332	1336	628
35°	1174	1158	1157	1146	1150	734
45°	943	935	931	928	927	728
55°	699	698	699	690	688	624
65°	443	456	465	446	432	439
75°	204	223	234	219	199	219
85°	34	45	51	48	46	45
90°	0	0	0	0	0	2
95°	26	105	472	164	101	30
105°	108	164	708	1250	1188	114
115°	201	242	537	1137	1335	198
125°	283	314	512	850	1016	253
135°	346	375	506	718	812	267
145°	408	429	510	621	677	255
155°	466	477	522	562	584	216
165°	515	517	528	540	548	145
175°	540	537	535	532	528	51
180°	536	536	536	536	536	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1565.3	1565.3	1565.3	1565.3	1565.3
2.5°	1574.1	1561.2	1565.3	1561.8	1554.3
5°	1569.5	1551.9	1557.0	1552.8	1550.1
7.5°	1553.5	1537.3	1541.0	1536.6	1535.0
10°	1539.1	1522.9	1526.7	1521.1	1518.4
12.5°	1522.6	1505.3	1509.0	1503.5	1501.9
15°	1493.6	1474.7	1477.0	1474.2	1471.5
17.5°	1459.9	1440.8	1441.2	1436.8	1436.2
20°	1435.7	1415.4	1413.6	1408.2	1410.9
22.5°	1409.2	1387.9	1386.0	1378.4	1382.2
25°	1365.3	1342.4	1340.5	1332.3	1336.4
27.5°	1314.6	1291.9	1292.0	1280.5	1284.8
30°	1277.1	1255.5	1257.8	1244.1	1249.5
32.5°	1237.4	1217.9	1219.2	1205.5	1210.9
35°	1173.6	1157.5	1157.1	1146.2	1150.2
37.5°	1108.5	1094.3	1092.0	1085.7	1086.8
40°	1063.3	1051.2	1046.8	1042.6	1042.6
42.5°	1015.9	1004.8	1000.4	997.4	996.3
45°	943.3	935.2	930.9	928.1	926.8
47.5°	871.6	864.1	860.3	858.3	857.0
50°	822.0	816.6	815.1	810.9	809.6
52.5°	772.3	769.1	767.6	762.4	761.0
55°	699.2	697.9	699.2	689.5	688.2
57.5°	623.1	625.2	629.7	616.7	613.4
60°	572.3	577.7	583.4	568.1	562.7
62.5°	520.5	529.1	537.0	519.5	511.9
65°	442.7	456.2	464.8	446.5	431.7
67.5°	367.7	384.4	394.7	375.0	358.3
70°	315.8	334.7	346.2	326.4	307.5
72.5°	270.6	291.6	300.9	282.3	263.4
75°	204.1	223.0	234.5	218.8	198.6
77.5°	144.8	162.6	172.1	158.5	141.8
80°	106.2	125.1	132.4	121.1	107.6
82.5°	75.3	90.9	96.0	89.2	80.0
85°	34.5	45.3	51.0	48.2	45.5
87.5°	8.8	16.4	21.0	21.0	22.1
90°	0.0	0.0	0.0	0.0	0.0
92.5°	8.1	43.2	100.2	29.2	22.0
95°	26.5	105.1	472.5	163.5	100.8
97.5°	48.7	123.2	727.7	520.7	356.8
100°	64.2	133.8	783.1	793.2	611.0
102.5°	81.3	145.4	770.8	1015.3	856.2
105°	107.9	163.7	707.7	1250.1	1188.4
107.5°	135.0	185.0	634.0	1316.3	1371.2
110°	153.8	200.6	591.6	1290.9	1414.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	171.7	216.1	563.1	1231.0	1407.1
115°	200.6	242.4	536.6	1136.8	1335.0
117.5°	226.1	265.3	521.0	1033.9	1243.7
120°	246.4	279.3	519.3	975.0	1176.1
122.5°	262.7	295.6	515.3	923.4	1110.1
125°	283.1	314.0	512.2	850.0	1016.3
127.5°	305.3	334.2	510.6	806.1	943.1
130°	316.7	345.6	508.1	775.6	895.1
132.5°	328.9	357.0	508.1	751.8	861.7
135°	346.2	375.1	506.1	718.0	811.6
137.5°	362.5	390.6	505.9	689.4	770.2
140°	374.7	403.6	505.1	665.7	743.4
142.5°	388.6	412.7	507.5	646.8	716.5
145°	408.3	429.2	510.2	621.4	677.2
147.5°	425.2	445.6	514.6	595.8	644.0
150°	439.9	453.8	516.3	587.3	621.2
152.5°	451.3	466.0	517.9	575.8	607.3
155°	466.4	477.3	522.4	561.6	584.5
157.5°	485.1	491.7	523.4	555.1	571.5
160°	494.9	499.9	527.5	550.2	564.1
162.5°	500.6	506.4	528.3	546.1	556.8
165°	515.3	517.2	528.5	539.9	547.8
167.5°	525.2	523.4	533.2	538.3	541.5
170°	528.5	527.5	531.5	532.7	536.6
172.5°	535.8	532.4	534.0	531.0	534.2
175°	539.7	536.7	534.6	531.5	527.5
177.5°	541.3	536.5	534.0	530.8	531.5
180°	535.6	535.6	535.6	535.6	535.6

(END OF REPORT)