

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: P562170

Luminaire Tested: **SQ4-PW1-025U-100D-92765-1D-UNV-STD-W-4 (4000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562170
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-PW1-025U-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 250 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

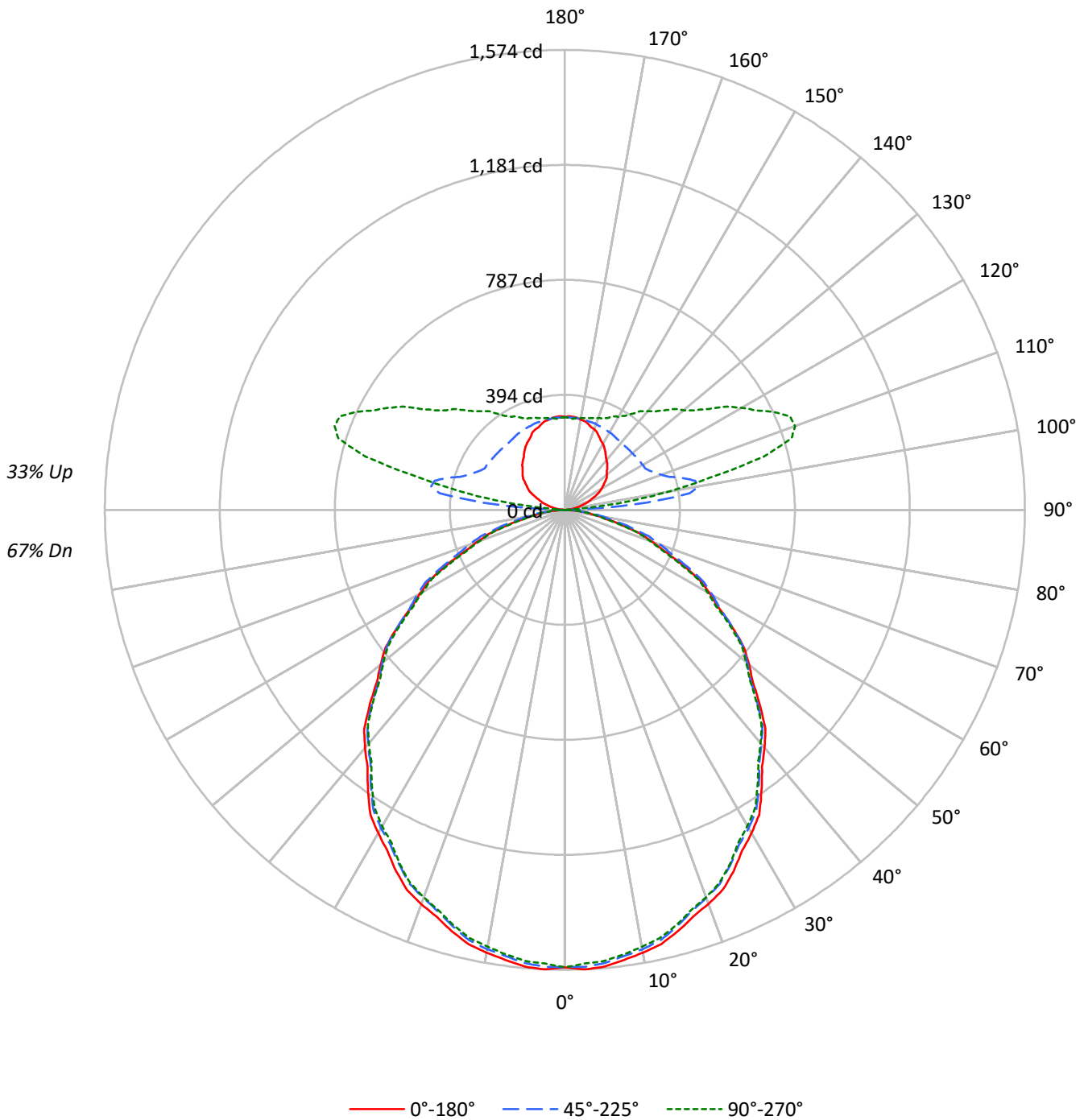
Lumens per Lamp: N/A
Luminaire Lumens: 5954.7 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 56.4
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	111	111	111	111	105	105	105	105	93	93	93	82	82	82	72	72	72	67
1	102	97	93	90	96	92	88	85	82	79	77	72	70	69	64	62	61	57
2	93	85	79	74	87	80	75	70	72	67	64	64	60	57	56	54	51	48
3	85	75	67	61	79	71	64	59	63	58	54	56	52	49	50	47	44	40
4	78	66	58	52	73	63	56	50	56	51	46	50	46	42	45	41	38	35
5	71	59	51	45	67	56	49	43	51	44	40	45	40	36	40	36	33	30
6	66	53	45	39	62	51	43	38	46	39	35	41	36	32	36	32	29	27
7	61	48	40	34	57	46	38	33	41	35	31	37	32	28	33	29	26	24
8	57	44	36	31	53	42	35	29	38	32	27	34	29	25	31	26	23	21
9	53	40	33	27	50	38	31	26	35	29	25	31	26	23	28	24	21	19
10	49	37	30	25	47	35	28	24	32	26	22	29	24	21	26	22	19	17

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	2.5
10°-20°	416.1	7.0
20°-30°	617.3	10.4
30°-40°	722.3	12.1
40°-50°	719.1	12.1
50°-60°	620.9	10.4
60°-70°	447.0	7.5
70°-80°	234.4	3.9
80°-90°	58.1	1.0
90°-100°	144.7	2.4
100°-110°	411.6	6.9
110°-120°	394.4	6.6
120°-130°	312.1	5.2
130°-140°	250.5	4.2
140°-150°	196.1	3.3
150°-160°	143.5	2.4
160°-170°	88.9	1.5
170°-180°	30.2	0.5
0°-30°	1180.8	19.8
0°-40°	1903.1	32.0
0°-60°	3243.1	54.5
0°-90°	3982.6	66.9
90°-120°	950.7	16.0
90°-150°	1709.6	28.7
90°-180°	1972.0	33.1
0°-180°	5954.7	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°	16	62	280	97	60	18
105°	64	97	420	741	704	68
115°	119	144	318	674	791	117
125°	168	186	304	504	602	150
135°	205	222	300	426	481	158
145°	242	254	302	368	401	151
155°	276	283	310	333	346	128
165°	305	307	313	320	325	86
175°	320	318	317	315	313	30
180°	318	318	318	318	318	

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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°	4.8	25.6	59.4	17.3	13.0
95°	15.7	62.3	280.1	96.9	59.8
97.5°	28.9	73.0	431.3	308.6	211.5
100°	38.0	79.3	464.2	470.2	362.2
102.5°	48.2	86.2	456.9	601.8	507.5
105°	64.0	97.0	419.5	741.0	704.4
107.5°	80.0	109.7	375.8	780.2	812.8
110°	91.1	118.9	350.7	765.2	838.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	<i>101.8</i>	128.1	333.8	729.7	834.1
115°	<i>118.9</i>	143.7	318.1	673.9	791.3
117.5°	<i>134.0</i>	157.3	308.8	612.8	737.2
120°	<i>146.1</i>	165.5	307.8	577.9	697.2
122.5°	<i>155.7</i>	175.2	305.4	547.3	658.0
125°	<i>167.8</i>	186.1	303.6	503.8	602.4
127.5°	<i>181.0</i>	198.1	302.6	477.8	559.1
130°	<i>187.7</i>	204.8	301.2	459.7	530.6
132.5°	<i>195.0</i>	211.6	301.2	445.6	510.8
135°	<i>205.2</i>	222.3	300.0	425.6	481.1
137.5°	<i>214.9</i>	231.5	299.9	408.6	456.6
140°	<i>222.1</i>	239.2	299.4	394.6	440.6
142.5°	<i>230.3</i>	244.6	300.8	383.4	424.7
145°	<i>242.0</i>	254.4	302.4	368.3	401.4
147.5°	<i>252.1</i>	264.1	305.1	353.2	381.7
150°	<i>260.8</i>	269.0	306.0	348.1	368.2
152.5°	<i>267.5</i>	276.2	307.0	341.3	360.0
155°	<i>276.4</i>	282.9	309.6	332.9	346.5
157.5°	<i>287.6</i>	291.4	310.2	329.1	338.7
160°	<i>293.3</i>	296.3	312.7	326.1	334.4
162.5°	<i>296.7</i>	300.2	313.1	323.7	330.0
165°	<i>305.4</i>	306.6	313.3	320.0	324.7
167.5°	<i>311.3</i>	310.3	316.0	319.1	321.0
170°	<i>313.3</i>	312.7	315.1	315.7	318.1
172.5°	<i>317.6</i>	315.6	316.5	314.8	316.6
175°	<i>319.9</i>	318.1	316.9	315.0	312.7
177.5°	<i>320.9</i>	318.0	316.5	314.6	315.1
180°	<i>317.5</i>	317.5	317.5	317.5	317.5

(END OF REPORT)