

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: P562157

Luminaire Tested: **SQ4-PW1-025U-075D-92765-1D-UNV-STD-W-4 (4000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562157
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-075D-92765-1D-UNV-STD-W-4 (4000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS
DOWNLIGHT 750 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

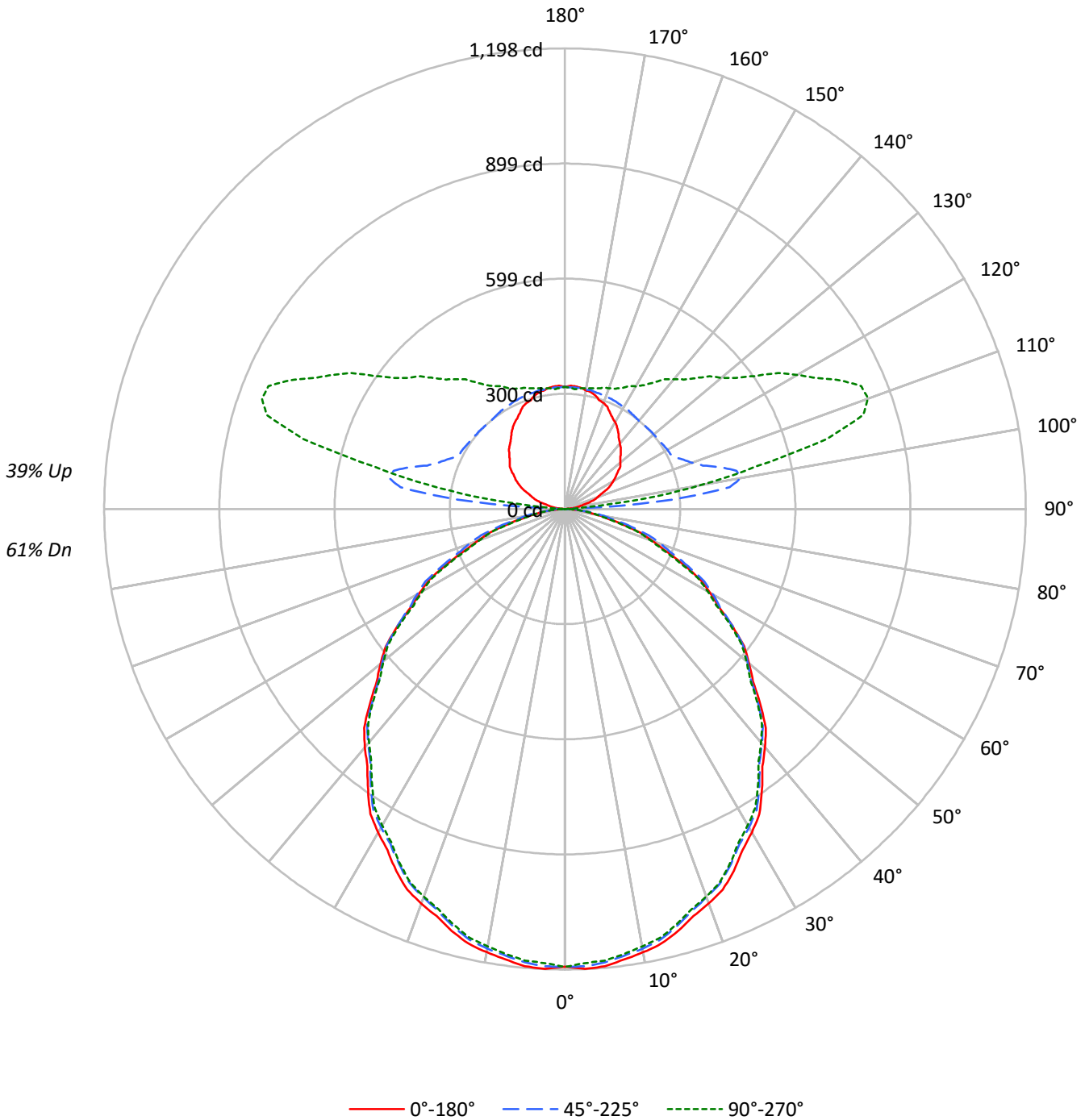
Lumens per Lamp: N/A
Luminaire Lumens: 5001.7 lumens
Efficiency: N/A
Efficacy: 109.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 45.9
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	110	110	110	110	103	103	103	103	89	89	89	77	77	77	66	66	66	61
1	100	96	92	89	94	90	86	83	79	76	74	68	66	65	58	57	56	51
2	91	84	78	73	85	79	73	69	69	65	61	60	57	54	52	49	47	43
3	83	74	66	61	78	69	63	57	61	56	52	53	49	46	46	43	40	37
4	76	65	57	51	71	62	54	49	54	48	44	47	43	39	41	38	35	31
5	70	58	50	44	65	55	48	42	49	43	38	42	38	34	37	33	30	27
6	65	52	44	38	60	49	42	37	44	38	33	38	34	30	33	30	27	24
7	60	47	39	34	56	45	37	32	40	34	29	35	30	27	31	27	24	21
8	56	43	35	30	52	41	34	29	36	30	26	32	27	24	28	24	21	19
9	52	39	32	27	48	37	30	26	33	28	23	30	25	21	26	22	19	17
10	48	36	29	24	45	34	28	23	31	25	21	27	23	19	24	20	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10986	10986	10986
5°	11057	10969	10921
10°	10969	10881	10822
15°	10853	10732	10692
20°	10723	10558	10537
25°	10573	10381	10349
30°	10350	10193	10126
35°	10056	9914	9855
40°	9742	9591	9552
45°	9363	9240	9199
50°	8975	8899	8839
55°	8556	8556	8421
60°	8034	8189	7898
65°	7353	7719	7169
70°	6480	7103	6312
75°	5536	6356	5386
80°	4293	5350	4346
85°	2774	4107	3663



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.1	2.2
10°-20°	316.6	6.3
20°-30°	469.6	9.4
30°-40°	549.4	11.0
40°-50°	547.0	10.9
50°-60°	472.3	9.4
60°-70°	340.0	6.8
70°-80°	178.3	3.6
80°-90°	44.2	0.9
90°-100°	144.7	2.9
100°-110°	411.6	8.2
110°-120°	394.4	7.9
120°-130°	312.1	6.2
130°-140°	250.5	5.0
140°-150°	196.1	3.9
150°-160°	143.5	2.9
160°-170°	88.9	1.8
170°-180°	30.2	0.6
0°-30°	898.3	18.0
0°-40°	1447.7	28.9
0°-60°	2467.0	49.3
0°-90°	3029.5	60.6
90°-120°	950.7	19.0
90°-150°	1709.6	34.2
90°-180°	1972.0	39.4
0°-180°	5001.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1191	1191	1191	1191	1191	
5°	1194	1181	1184	1181	1179	113
15°	1136	1122	1124	1122	1119	320
25°	1039	1021	1020	1014	1017	478
35°	893	880	880	872	875	558
45°	718	711	708	706	705	554
55°	532	531	532	524	524	475
65°	337	347	354	340	328	334
75°	155	170	178	166	151	166
85°	26	34	39	37	35	35
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°	1190.7	1190.7	1190.7	1190.7	1190.7
2.5°	1197.5	1187.6	1190.7	1188.1	1182.3
5°	1193.9	1180.6	1184.4	1181.3	1179.2
7.5°	1181.7	1169.4	1172.3	1168.9	1167.7
10°	1170.8	1158.5	1161.4	1157.1	1155.1
12.5°	1158.2	1145.1	1147.9	1143.7	1142.5
15°	1136.2	1121.8	1123.6	1121.5	1119.4
17.5°	1110.6	1096.0	1096.3	1093.0	1092.5
20°	1092.1	1076.7	1075.3	1071.2	1073.2
22.5°	1072.0	1055.8	1054.4	1048.5	1051.4
25°	1038.6	1021.2	1019.7	1013.5	1016.6
27.5°	1000.0	982.8	982.8	974.1	977.4
30°	971.5	955.1	956.8	946.4	950.5
32.5°	941.3	926.5	927.4	917.0	921.1
35°	892.8	880.5	880.2	871.9	875.0
37.5°	843.3	832.4	830.7	825.9	826.7
40°	808.9	799.6	796.3	793.1	793.1
42.5°	772.8	764.4	761.0	758.7	757.9
45°	717.6	711.4	708.2	706.0	705.0
47.5°	663.0	657.3	654.4	652.9	651.9
50°	625.3	621.2	620.0	616.9	615.8
52.5°	587.5	585.0	583.9	579.9	578.9
55°	531.9	530.9	531.9	524.5	523.5
57.5°	474.0	475.6	479.0	469.1	466.6
60°	435.4	439.5	443.8	432.1	428.0
62.5°	395.9	402.5	408.5	395.2	389.4
65°	336.8	347.0	353.6	339.7	328.4
67.5°	279.7	292.4	300.3	285.3	272.6
70°	240.2	254.6	263.3	248.3	234.0
72.5°	205.8	221.8	228.9	214.7	200.4
75°	155.3	169.6	178.3	166.5	151.1
77.5°	110.2	123.7	130.9	120.6	107.8
80°	80.8	95.1	100.7	92.1	81.8
82.5°	57.3	69.2	73.0	67.8	60.8
85°	26.2	34.4	38.8	36.7	34.6
87.5°	6.7	12.5	15.9	16.0	16.8
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)