

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: P562156

Luminaire Tested: **SQ4-PW1-025U-075D-92765-1D-UNV-STD-W-4 (3500K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562156
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 (3500K)
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 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

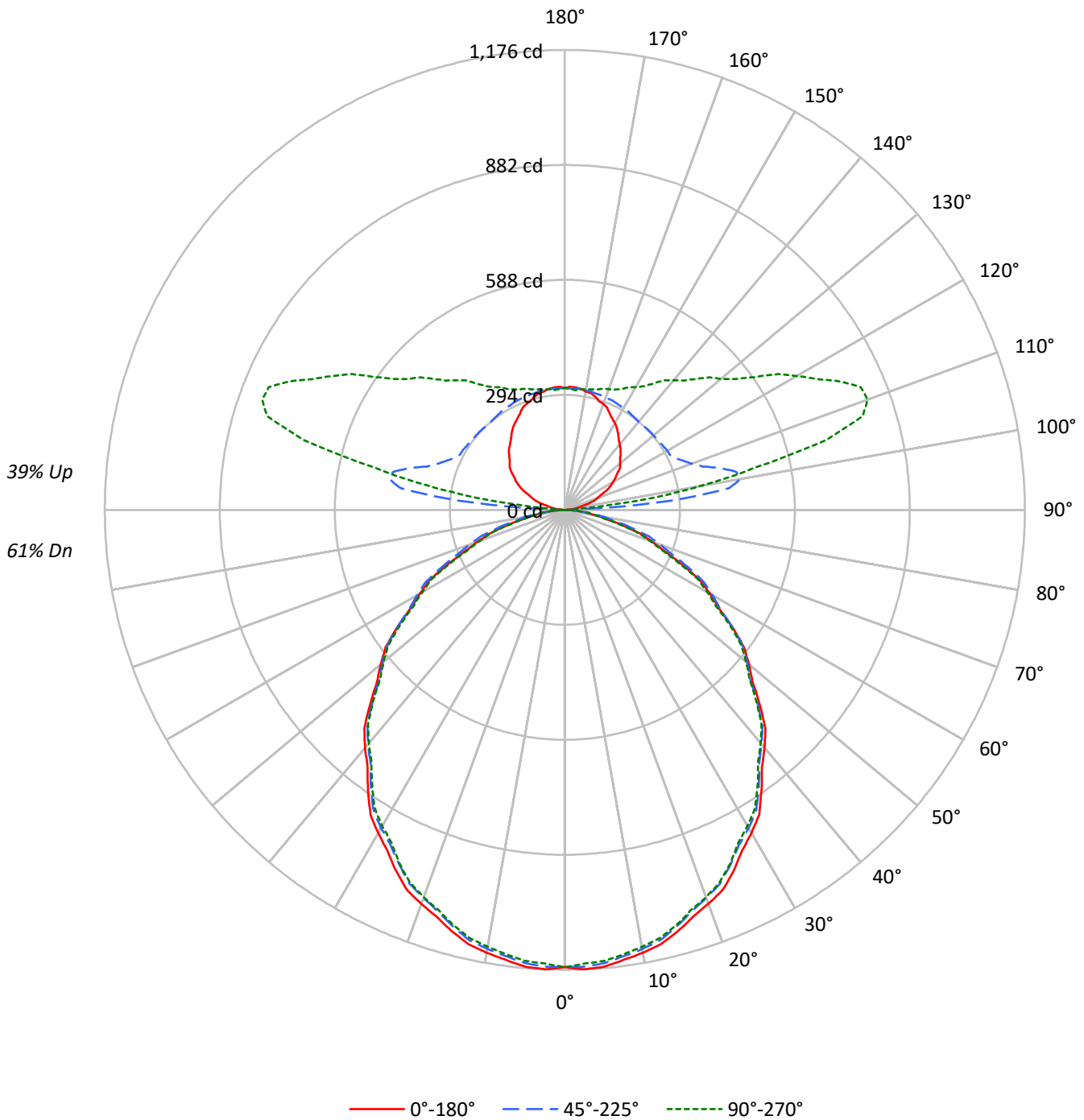
Lumens per Lamp: N/A
Luminaire Lumens: 4911.9 lumens
Efficiency: N/A
Efficacy: 107.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

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°	10788	10788	10788
5°	10858	10773	10725
10°	10772	10685	10627
15°	10658	10539	10500
20°	10530	10368	10349
25°	10384	10194	10163
30°	10163	10010	9944
35°	9875	9736	9677
40°	9567	9418	9381
45°	9195	9073	9033
50°	8813	8740	8681
55°	8401	8401	8270
60°	7890	8042	7756
65°	7220	7580	7041
70°	6364	6976	6196
75°	5436	6242	5290
80°	4213	5255	4272
85°	2731	4033	3599



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.1	2.2
10°-20°	310.9	6.3
20°-30°	461.1	9.4
30°-40°	539.6	11.0
40°-50°	537.2	10.9
50°-60°	463.9	9.4
60°-70°	333.9	6.8
70°-80°	175.1	3.6
80°-90°	43.4	0.9
90°-100°	142.1	2.9
100°-110°	404.2	8.2
110°-120°	387.3	7.9
120°-130°	306.6	6.2
130°-140°	246.0	5.0
140°-150°	192.6	3.9
150°-160°	140.9	2.9
160°-170°	87.3	1.8
170°-180°	29.6	0.6
0°-30°	882.1	18.0
0°-40°	1421.7	28.9
0°-60°	2422.7	49.3
0°-90°	2975.1	60.6
90°-120°	933.6	19.0
90°-150°	1678.9	34.2
90°-180°	1937.0	39.4
0°-180°	4911.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1169	1169	1169	1169	1169	
5°	1172	1159	1163	1160	1158	111
15°	1116	1102	1103	1101	1099	314
25°	1020	1003	1001	995	998	469
35°	877	865	864	856	859	548
45°	705	699	695	693	692	544
55°	522	521	522	515	514	466
65°	331	341	347	334	322	328
75°	152	167	175	164	148	163
85°	26	34	38	36	34	34
90°	0	0	0	0	0	2
95°	15	61	275	95	59	18
105°	63	95	412	728	692	66
115°	117	141	312	662	777	115
125°	165	183	298	495	592	147
135°	202	218	295	418	472	156
145°	238	250	297	362	394	148
155°	272	278	304	327	340	126
165°	300	301	308	314	319	84
175°	314	312	311	309	307	30
180°	312	312	312	312	312	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1169.3	1169.3	1169.3	1169.3	1169.3
2.5°	1175.9	1166.3	1169.3	1166.7	1161.1
5°	1172.4	1159.3	1163.2	1160.0	1158.0
7.5°	1160.5	1148.4	1151.2	1147.9	1146.7
10°	1149.8	1137.7	1140.5	1136.3	1134.3
12.5°	1137.4	1124.5	1127.3	1123.2	1122.0
15°	1115.8	1101.7	1103.4	1101.3	1099.3
17.5°	1090.6	1076.3	1076.6	1073.3	1072.9
20°	1072.5	1057.4	1056.0	1051.9	1054.0
22.5°	1052.7	1036.8	1035.4	1029.7	1032.5
25°	1020.0	1002.8	1001.4	995.3	998.3
27.5°	982.0	965.1	965.2	956.6	959.8
30°	954.0	937.9	939.6	929.4	933.4
32.5°	924.4	909.8	910.8	900.5	904.6
35°	876.8	864.7	864.4	856.2	859.2
37.5°	828.1	817.4	815.8	811.0	811.8
40°	794.3	785.3	782.0	778.9	778.9
42.5°	758.9	750.6	747.4	745.1	744.3
45°	704.7	698.7	695.4	693.3	692.3
47.5°	651.1	645.5	642.7	641.2	640.2
50°	614.0	610.0	608.9	605.8	604.8
52.5°	576.9	574.5	573.4	569.5	568.5
55°	522.3	521.3	522.3	515.1	514.1
57.5°	465.5	467.1	470.4	460.7	458.3
60°	427.6	431.6	435.8	424.4	420.3
62.5°	388.8	395.3	401.2	388.1	382.4
65°	330.7	340.8	347.2	333.6	322.5
67.5°	274.7	287.2	294.9	280.2	267.7
70°	235.9	250.0	258.6	243.9	229.7
72.5°	202.1	217.9	224.8	210.9	196.8
75°	152.5	166.6	175.1	163.5	148.4
77.5°	108.2	121.5	128.6	118.4	105.9
80°	79.3	93.4	98.9	90.4	80.4
82.5°	56.3	67.9	71.7	66.6	59.8
85°	25.8	33.8	38.1	36.0	34.0
87.5°	6.6	12.2	15.7	15.7	16.5
90°	0.0	0.0	0.0	0.0	0.0
92.5°	4.7	25.1	58.3	17.0	12.8
95°	15.4	61.2	275.0	95.2	58.7
97.5°	28.3	71.7	423.6	303.1	207.7
100°	37.3	77.9	455.8	461.7	355.7
102.5°	47.3	84.6	448.7	591.0	498.4
105°	62.8	95.3	412.0	727.7	691.7
107.5°	78.6	107.7	369.0	766.2	798.2
110°	89.5	116.7	344.4	751.5	823.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	99.9	125.8	327.8	716.6	819.1
115°	116.8	141.1	312.4	661.8	777.1
117.5°	131.6	154.4	303.3	601.8	724.0
120°	143.4	162.6	302.3	567.6	684.6
122.5°	152.9	172.1	299.9	537.5	646.2
125°	164.8	182.8	298.2	494.8	591.6
127.5°	177.7	194.5	297.2	469.3	549.0
130°	184.3	201.2	295.8	451.5	521.0
132.5°	191.5	207.8	295.8	437.6	501.6
135°	201.5	218.3	294.6	417.9	472.4
137.5°	211.0	227.4	294.5	401.3	448.4
140°	218.1	234.9	294.0	387.5	432.7
142.5°	226.2	240.2	295.4	376.5	417.1
145°	237.7	249.9	297.0	361.7	394.2
147.5°	247.5	259.4	299.6	346.8	374.9
150°	256.1	264.2	300.5	341.9	361.6
152.5°	262.7	271.3	301.5	335.2	353.5
155°	271.5	277.9	304.1	326.9	340.2
157.5°	282.4	286.2	304.7	323.1	332.7
160°	288.1	291.0	307.0	320.3	328.4
162.5°	291.4	294.8	307.5	317.9	324.1
165°	299.9	301.1	307.6	314.3	318.9
167.5°	305.7	304.7	310.4	313.4	315.2
170°	307.6	307.1	309.4	310.1	312.4
172.5°	311.9	309.9	310.8	309.1	311.0
175°	314.2	312.4	311.2	309.4	307.0
177.5°	315.1	312.3	310.8	309.0	309.4
180°	311.8	311.8	311.8	311.8	311.8

(END OF REPORT)