

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: P561885

Luminaire Tested: **SQ4-PR1-075U-050D-92765-1D-UNV-STD-W-4 (4500K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561885
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PR1-075U-050D-92765-1D-UNV-STD-W-4 (4500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

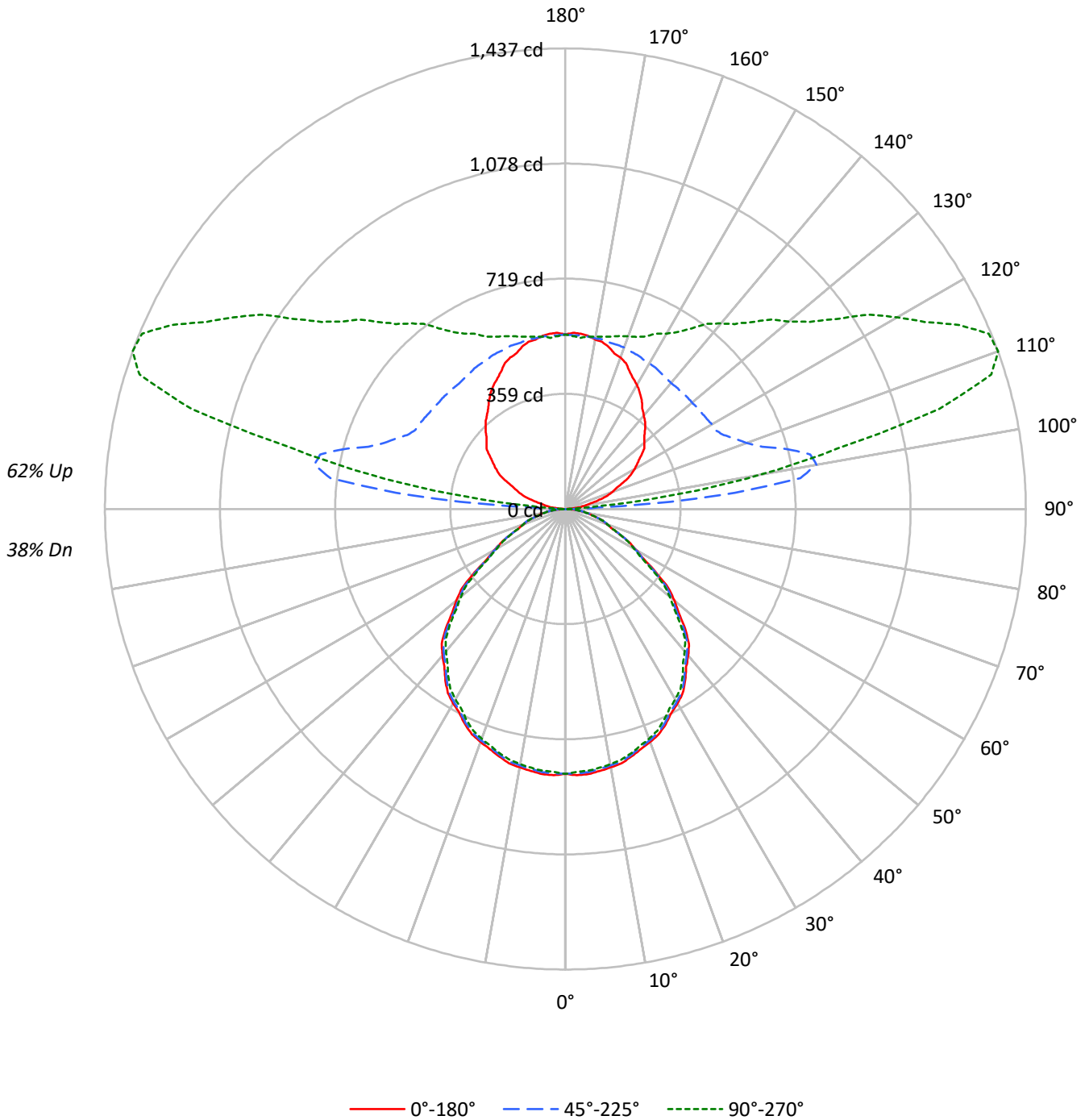
Lumens per Lamp: N/A
Luminaire Lumens: 5446.7 lumens
Efficiency: N/A
Efficacy: 122.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 44.4
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	104	104	104	104	95	95	95	95	77	77	77	60	60	60	45	45	45	38
1	95	91	87	84	86	83	80	77	67	65	63	53	52	50	40	39	38	32
2	87	80	74	69	79	73	68	63	59	56	53	47	45	42	36	34	33	27
3	79	70	63	58	72	64	58	53	52	48	45	42	39	36	32	30	28	24
4	73	62	55	49	66	57	50	45	47	42	38	37	34	31	28	26	24	20
5	67	55	48	42	60	51	44	39	42	37	33	33	30	27	26	23	21	18
6	61	50	42	36	56	46	39	34	38	32	29	30	26	24	23	21	19	16
7	57	45	37	32	51	41	34	30	34	29	25	27	24	21	21	19	17	14
8	53	41	33	28	48	37	31	26	31	26	22	25	21	19	20	17	15	12
9	49	37	30	25	44	34	28	23	28	23	20	23	19	17	18	15	13	11
10	46	34	27	22	41	31	25	21	26	21	18	21	18	15	17	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7625	7625	7625
5°	7693	7634	7594
10°	7669	7616	7575
15°	7636	7588	7547
20°	7596	7548	7492
25°	7543	7492	7406
30°	7462	7408	7303
35°	7351	7287	7184
40°	7184	7107	6978
45°	6892	6771	6631
50°	6376	6222	6100
55°	5564	5438	5324
60°	4689	4650	4558
65°	4056	4071	4041
70°	3725	3744	3744
75°	3579	3579	3604
80°	3369	3406	3369
85°	2710	3017	3017



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.1	1.4
10°-20°	223.6	4.1
20°-30°	337.3	6.2
30°-40°	401.8	7.4
40°-50°	396.2	7.3
50°-60°	302.8	5.6
60°-70°	187.4	3.4
70°-80°	106.4	2.0
80°-90°	32.4	0.6
90°-100°	248.0	4.6
100°-110°	705.7	13.0
110°-120°	676.1	12.4
120°-130°	535.1	9.8
130°-140°	429.5	7.9
140°-150°	336.2	6.2
150°-160°	246.0	4.5
160°-170°	152.4	2.8
170°-180°	51.7	0.9
0°-30°	639.0	11.7
0°-40°	1040.8	19.1
0°-60°	1739.8	31.9
0°-90°	2066.0	37.9
90°-120°	1629.8	29.9
90°-150°	2930.6	53.8
90°-180°	3381.0	62.1
0°-180°	5446.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	826	826	826	826	826	
5°	831	822	824	821	820	79
15°	799	791	794	792	790	226
25°	741	732	736	728	728	341
35°	653	645	647	638	638	407
45°	528	521	519	510	508	405
55°	346	340	338	332	331	310
65°	186	184	186	185	185	188
75°	100	100	100	101	101	106
85°	26	27	28	28	28	30
90°	0	0	0	0	0	2
95°	27	107	480	166	102	31
105°	110	166	719	1270	1208	116
115°	204	246	545	1155	1356	201
125°	288	319	520	864	1033	257
135°	352	381	514	730	825	271
145°	415	436	518	631	688	259
155°	474	485	531	571	594	219
165°	524	526	537	549	557	147
175°	548	545	543	540	536	52
180°	544	544	544	544	544	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	826.4	826.4	826.4	826.4	826.4
2.5°	831.5	824.3	826.4	824.6	820.7
5°	830.7	821.6	824.3	821.4	820.0
7.5°	824.3	815.4	818.0	815.1	814.3
10°	818.6	810.2	812.9	810.0	808.6
12.5°	812.3	803.4	806.6	803.2	801.8
15°	799.4	791.0	794.4	791.5	790.1
17.5°	785.1	776.2	779.6	776.3	774.5
20°	773.7	765.4	768.8	763.8	763.1
22.5°	761.2	752.9	756.2	749.5	749.4
25°	741.0	731.9	736.0	728.2	727.5
27.5°	716.9	708.6	712.0	704.0	703.1
30°	700.4	692.1	695.4	686.9	685.5
32.5°	681.6	673.8	676.6	668.1	667.3
35°	652.7	645.1	647.0	638.5	637.8
37.5°	619.8	612.9	614.0	604.6	603.9
40°	596.5	589.5	590.1	580.1	579.4
42.5°	570.9	563.9	563.3	553.3	552.7
45°	528.2	521.2	518.9	509.6	508.2
47.5°	479.5	472.5	468.2	460.7	459.7
50°	444.2	437.2	433.5	427.0	425.0
52.5°	406.0	399.1	395.9	390.0	387.9
55°	345.9	340.4	338.1	332.4	331.0
57.5°	288.9	285.1	284.4	278.9	278.3
60°	254.1	252.0	252.0	247.0	247.0
62.5°	224.5	223.0	224.1	220.8	220.2
65°	185.8	184.4	186.5	185.1	185.1
67.5°	155.2	155.2	156.5	155.9	155.9
70°	138.1	138.1	138.8	138.8	138.8
72.5°	122.7	122.2	124.0	124.0	123.4
75°	100.4	100.4	100.4	101.1	101.1
77.5°	78.2	78.3	78.9	78.7	78.2
80°	63.4	64.0	64.1	63.4	63.4
82.5°	48.5	49.2	49.3	49.1	48.5
85°	25.6	27.0	28.5	28.5	28.5
87.5°	7.4	9.6	11.4	11.4	10.8
90°	0.0	0.0	0.0	0.0	0.0
92.5°	8.3	43.9	101.8	29.6	22.3
95°	26.9	106.8	480.1	166.2	102.4
97.5°	49.5	125.1	739.4	529.1	362.6
100°	65.2	136.0	795.7	806.0	620.8
102.5°	82.6	147.7	783.3	1031.7	870.0
105°	109.7	166.3	719.1	1270.2	1207.5
107.5°	137.2	188.0	644.2	1337.5	1393.4
110°	156.2	203.8	601.2	1311.8	1437.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	174.5	219.6	572.2	1250.9	1429.8
115°	203.8	246.3	545.3	1155.2	1356.5
117.5°	229.7	269.6	529.4	1050.5	1263.8
120°	250.4	283.8	527.7	990.7	1195.1
122.5°	267.0	300.3	523.6	938.3	1128.1
125°	287.7	319.0	520.5	863.7	1032.7
127.5°	310.2	339.5	518.8	819.1	958.4
130°	321.8	351.1	516.3	788.1	909.5
132.5°	334.2	362.7	516.3	763.9	875.6
135°	351.8	381.1	514.3	729.6	824.7
137.5°	368.4	396.9	514.0	700.5	782.7
140°	380.8	410.1	513.2	676.4	755.3
142.5°	394.8	419.3	515.7	657.2	728.0
145°	414.9	436.2	518.4	631.4	688.1
147.5°	432.1	452.7	522.9	605.4	654.4
150°	447.0	461.2	524.6	596.8	631.2
152.5°	458.6	473.6	526.3	585.1	617.1
155°	473.9	485.0	530.8	570.7	593.9
157.5°	492.9	499.6	531.8	564.1	580.7
160°	502.9	507.9	536.0	559.1	573.2
162.5°	508.7	514.5	536.8	554.9	565.8
165°	523.6	525.6	537.0	548.6	556.7
167.5°	533.7	531.9	541.8	547.0	550.3
170°	537.0	536.0	540.1	541.3	545.3
172.5°	544.5	541.0	542.6	539.6	542.8
175°	548.4	545.4	543.2	540.0	536.0
177.5°	550.1	545.2	542.6	539.3	540.1
180°	544.3	544.3	544.3	544.3	544.3

(END OF REPORT)