

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: P523727

Luminaire Tested: **SQ4-PP3-075U-050D-92765-1D-UNV-STD-W-4 (4500K)**

Issue Date: 5/24/2021

Test Information

Test Method: LM-79-2019
Report Number: P523727
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/24/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-075U-050D-92765-1D-UNV-STD-W-4 (4500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM 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

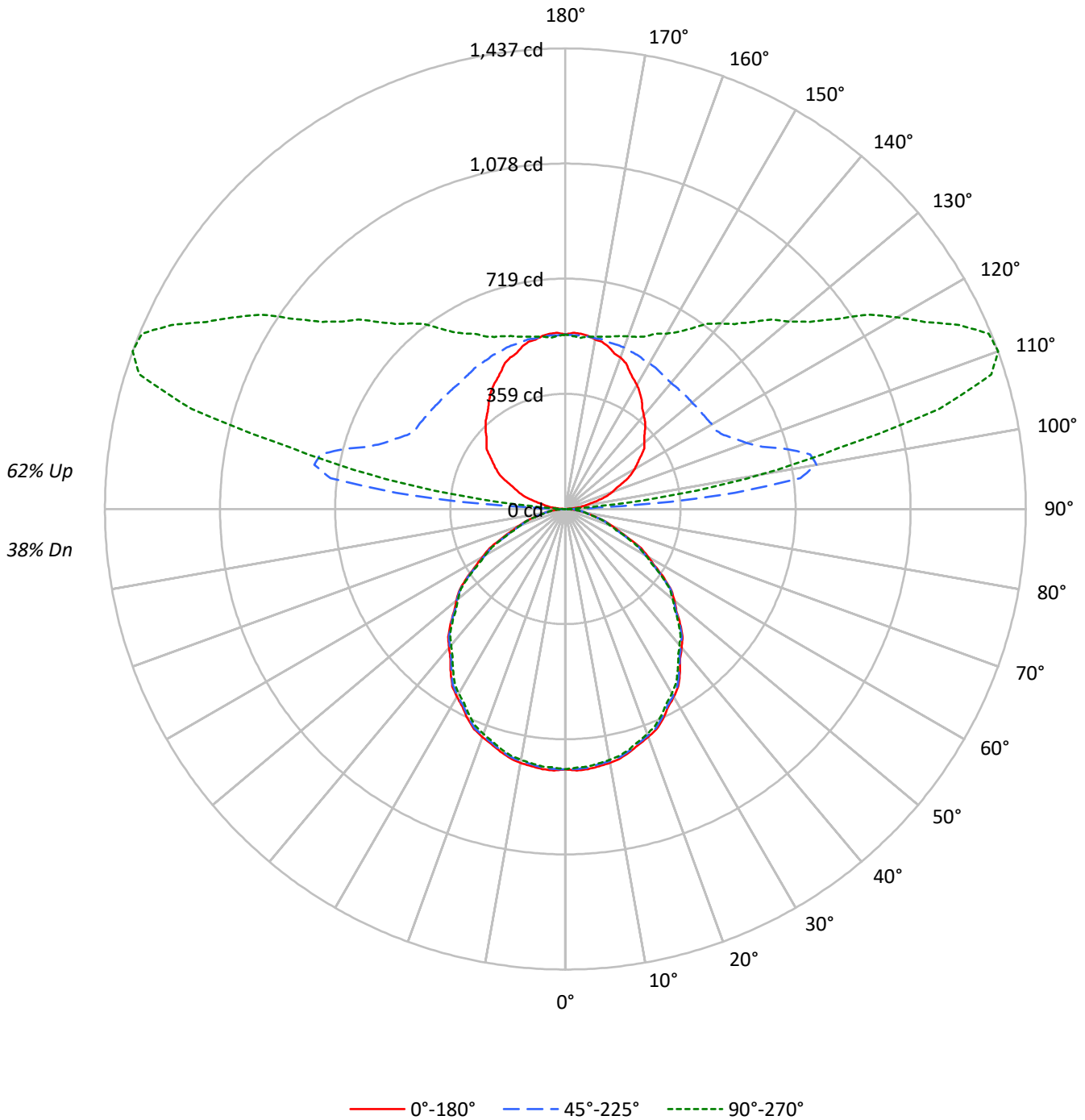
Lumens per Lamp: N/A
Luminaire Lumens: 5459.0 lumens
Efficiency: N/A
Efficacy: 123.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

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	44	42	35	34	33	27
3	79	70	63	57	72	64	58	53	52	48	44	42	38	36	32	30	28	23
4	72	62	54	48	66	57	50	45	46	42	38	37	34	31	28	26	24	20
5	66	55	47	41	60	50	44	38	42	36	32	33	30	27	25	23	21	17
6	61	49	42	36	55	45	38	33	37	32	28	30	26	23	23	20	18	15
7	57	45	37	31	51	41	34	29	34	29	25	27	23	21	21	18	16	14
8	52	40	33	28	47	37	30	26	31	26	22	25	21	18	19	17	15	12
9	49	37	29	25	44	34	27	23	28	23	20	23	19	16	18	15	13	11
10	45	34	27	22	41	31	25	20	26	21	18	21	17	15	16	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7492	7492	7492
5°	7546	7501	7474
10°	7534	7481	7447
15°	7484	7444	7403
20°	7434	7392	7336
25°	7346	7295	7223
30°	7210	7172	7081
35°	7021	6973	6885
40°	6796	6754	6677
45°	6611	6564	6500
50°	6374	6333	6272
55°	6043	5964	5918
60°	5503	5344	5318
65°	4846	4646	4630
70°	4184	4011	4011
75°	3604	3550	3501
80°	3177	3214	3140
85°	2488	2710	2710



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.8	1.4
10°-20°	219.2	4.0
20°-30°	328.4	6.0
30°-40°	385.2	7.1
40°-50°	386.4	7.1
50°-60°	329.6	6.0
60°-70°	215.0	3.9
70°-80°	107.9	2.0
80°-90°	29.9	0.5
90°-100°	248.0	4.5
100°-110°	705.7	12.9
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°	624.4	11.4
0°-40°	1009.6	18.5
0°-60°	1725.6	31.6
0°-90°	2078.3	38.1
90°-120°	1629.8	29.9
90°-150°	2930.6	53.7
90°-180°	3381.0	61.9
0°-180°	5459.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	812	812	812	812	812	
5°	815	807	810	807	807	77
15°	784	776	779	776	775	221
25°	722	713	717	710	710	332
35°	623	617	619	612	611	389
45°	507	503	503	498	498	390
55°	376	374	371	369	368	334
65°	222	218	213	211	212	222
75°	101	101	100	99	98	110
85°	24	26	26	26	26	28
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°	812.0	812.0	812.0	812.0	812.0
2.5°	817.1	810.4	812.0	810.8	807.4
5°	814.8	807.2	809.9	807.0	807.0
7.5°	809.3	800.9	803.6	800.7	800.6
10°	804.2	795.8	798.5	795.6	794.9
12.5°	796.8	788.4	791.6	788.2	788.1
15°	783.5	775.9	779.3	776.4	775.0
17.5°	768.6	760.2	764.3	760.3	759.8
20°	757.2	748.8	752.9	747.2	747.2
22.5°	743.5	735.2	739.8	732.4	732.4
25°	721.6	713.3	716.6	710.2	709.5
27.5°	695.6	687.4	690.9	683.6	683.5
30°	676.8	669.1	673.2	665.4	664.7
32.5°	656.3	649.2	652.2	644.3	643.6
35°	623.4	617.1	619.1	612.0	611.3
37.5°	588.8	582.4	584.7	578.6	578.3
40°	564.3	560.2	560.8	555.8	554.4
42.5°	541.6	536.8	537.4	532.4	532.2
45°	506.7	503.2	503.1	498.2	498.2
47.5°	469.7	467.0	466.3	462.1	462.0
50°	444.1	442.0	441.2	437.6	437.0
52.5°	417.3	416.3	413.9	410.9	410.8
55°	375.7	374.4	370.8	368.6	367.9
57.5°	330.6	327.8	323.8	320.7	321.2
60°	298.2	295.4	289.6	288.2	288.2
62.5°	266.9	263.5	257.8	255.8	256.9
65°	222.0	217.9	212.8	211.4	212.1
67.5°	181.3	177.6	172.1	172.1	171.5
70°	155.1	153.1	148.7	148.7	148.7
72.5°	131.8	130.8	127.7	127.7	127.1
75°	101.1	101.1	99.6	98.9	98.2
77.5°	75.7	76.0	75.3	74.6	73.3
80°	59.8	61.2	60.5	59.8	59.1
82.5°	45.0	46.4	46.3	45.0	44.8
85°	23.5	25.6	25.6	25.6	25.6
87.5°	6.3	8.5	9.1	9.1	9.7
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)