

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: P561523

Luminaire Tested: **SQ4-PC3-075U-050D-92765-1D-UNV-STD-W-4 (5700K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561523
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2106-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PC3-075U-050D-92765-1D-UNV-STD-W-4 (5700K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

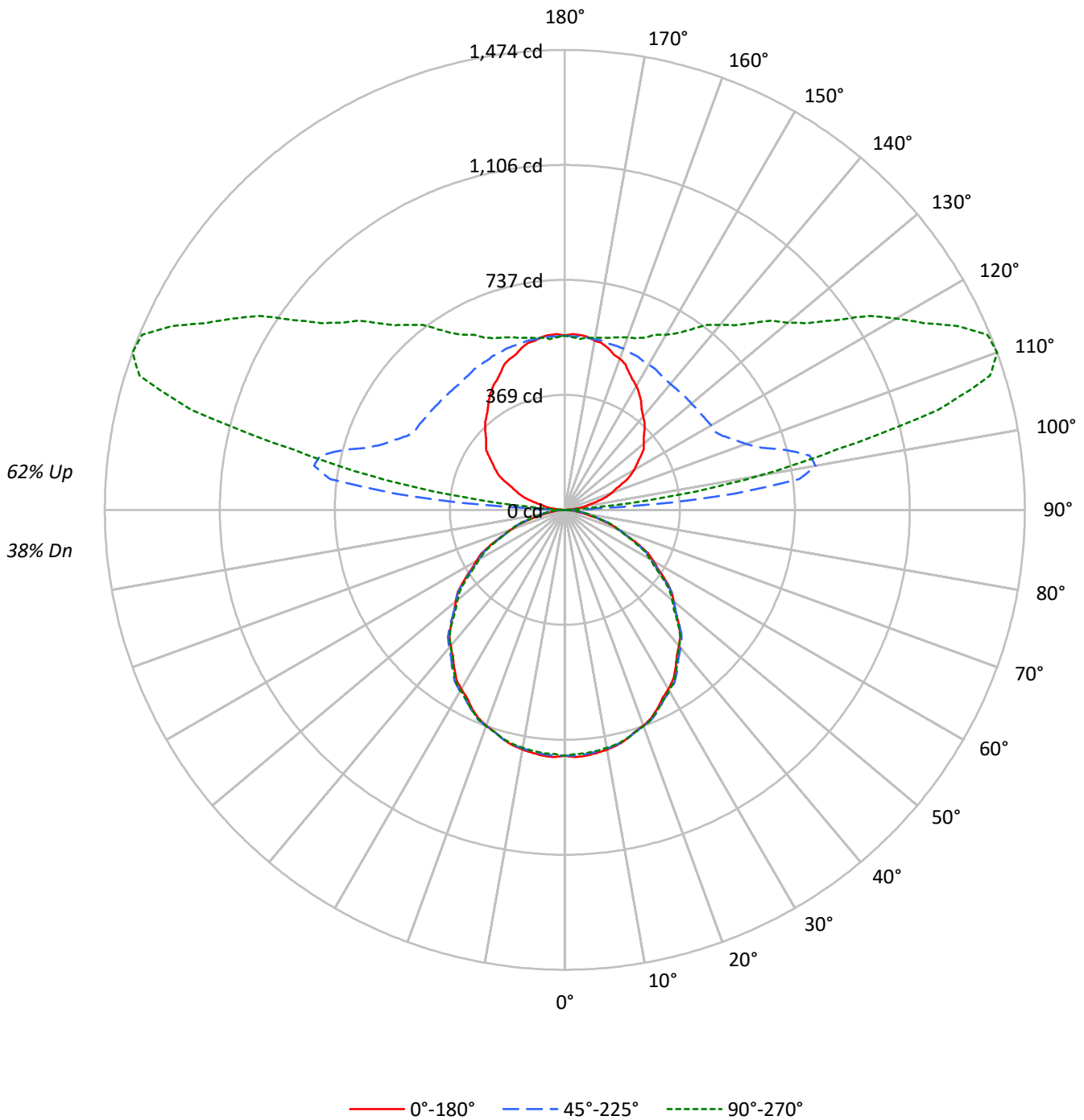
Lumens per Lamp: N/A
Luminaire Lumens: 5618.4 lumens
Efficiency: N/A
Efficacy: 127.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 44.2
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	79	73	68	78	72	67	63	59	55	52	47	44	42	35	34	32	27
3	79	70	63	57	71	64	57	52	52	48	44	41	38	36	31	29	27	23
4	72	62	54	48	65	56	50	44	46	41	37	37	33	30	28	26	24	20
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	23	21	17
6	61	49	41	35	55	45	38	33	37	32	28	30	26	23	23	20	18	15
7	56	44	36	31	51	40	34	29	33	28	24	27	23	20	21	18	16	13
8	52	40	32	27	47	37	30	25	30	25	22	25	21	18	19	16	14	12
9	48	36	29	24	44	33	27	22	28	23	19	23	19	16	17	15	13	11
10	45	33	26	22	41	31	24	20	26	21	17	21	17	14	16	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7273	7273	7273
5°	7329	7280	7254
10°	7310	7277	7256
15°	7272	7272	7265
20°	7224	7246	7246
25°	7156	7207	7186
30°	7069	7154	7123
35°	6964	7070	7021
40°	6848	6946	6875
45°	6724	6772	6667
50°	6548	6548	6443
55°	6341	6259	6164
60°	6034	5912	5818
65°	5578	5466	5418
70°	4883	4923	4904
75°	3928	4345	4370
80°	2795	3682	3725
85°	1704	3091	3091



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.6	1.3
10°-20°	214.1	3.8
20°-30°	324.2	5.8
30°-40°	388.7	6.9
40°-50°	396.4	7.1
50°-60°	346.0	6.2
60°-70°	247.7	4.4
70°-80°	127.6	2.3
80°-90°	32.3	0.6
90°-100°	254.3	4.5
100°-110°	723.6	12.9
110°-120°	693.3	12.3
120°-130°	548.7	9.8
130°-140°	440.5	7.8
140°-150°	344.8	6.1
150°-160°	252.3	4.5
160°-170°	156.3	2.8
170°-180°	53.0	0.9
0°-30°	612.9	10.9
0°-40°	1001.6	17.8
0°-60°	1744.0	31.0
0°-90°	2151.5	38.3
90°-120°	1671.3	29.7
90°-150°	3005.3	53.5
90°-180°	3467.0	61.7
0°-180°	5618.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	788	788	788	788	788	
5°	791	783	786	784	783	75
15°	761	755	761	761	761	215
25°	703	698	708	706	706	323
35°	618	617	628	623	623	387
45°	515	514	519	512	511	397
55°	394	389	389	383	383	351
65°	256	250	250	248	248	253
75°	110	115	122	123	123	119
85°	16	25	29	30	29	22
90°	0	0	0	0	0	2
95°	28	110	492	170	105	32
105°	112	171	737	1303	1238	119
115°	209	253	559	1185	1391	206
125°	295	327	534	886	1059	264
135°	361	391	527	748	846	278
145°	426	447	532	648	706	266
155°	486	497	544	585	609	225
165°	537	539	551	563	571	151
175°	562	559	557	554	550	53
180°	558	558	558	558	558	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	788.3	788.3	788.3	788.3	788.3
2.5°	793.0	786.2	788.3	786.5	783.7
5°	791.3	783.4	786.1	783.9	783.2
7.5°	785.6	777.7	781.3	779.9	779.1
10°	780.3	772.5	776.7	775.2	774.5
12.5°	773.3	766.0	770.8	769.4	769.2
15°	761.3	754.9	761.3	761.3	760.6
17.5°	746.3	740.4	747.3	747.7	747.3
20°	735.8	729.4	738.0	737.3	738.0
22.5°	722.9	717.7	726.9	725.0	725.7
25°	702.9	697.9	708.0	705.9	705.9
27.5°	679.3	675.7	686.7	684.4	684.4
30°	663.5	659.9	671.5	668.6	668.6
32.5°	646.0	643.6	654.6	651.1	651.1
35°	618.3	616.8	627.7	623.4	623.4
37.5°	589.6	588.4	598.3	593.0	591.3
40°	568.6	567.9	576.7	570.8	570.8
42.5°	547.6	546.9	554.5	547.5	547.5
45°	515.3	513.9	519.0	512.4	511.0
47.5°	480.2	478.7	481.9	474.7	474.0
50°	456.2	454.8	456.2	449.6	448.9
52.5°	431.7	429.1	429.4	422.8	422.6
55°	394.2	389.2	389.1	383.2	383.2
57.5°	354.5	347.9	348.5	343.5	342.8
60°	327.0	319.9	320.4	316.0	315.3
62.5°	300.2	291.9	293.6	288.6	288.5
65°	255.5	249.8	250.4	248.2	248.2
67.5°	212.6	207.3	211.1	209.3	209.2
70°	181.0	177.5	182.5	182.5	181.8
72.5°	151.8	151.7	158.0	158.0	158.4
75°	110.2	115.2	121.9	122.6	122.6
77.5°	73.6	82.4	89.8	90.1	89.9
80°	52.6	62.5	69.3	70.8	70.1
82.5°	35.6	46.2	51.8	53.3	52.6
85°	16.1	24.6	29.2	29.9	29.2
87.5°	4.7	9.8	11.7	11.7	10.5
90°	0.0	0.0	0.0	0.0	0.0
92.5°	8.5	45.0	104.4	30.4	22.9
95°	27.6	109.5	492.3	170.4	105.0
97.5°	50.7	128.3	758.2	542.6	371.8
100°	66.8	139.5	816.0	826.5	636.6
102.5°	84.7	151.5	803.2	1057.9	892.1
105°	112.5	170.6	737.4	1302.6	1238.3
107.5°	140.7	192.8	660.6	1371.6	1428.8
110°	160.2	209.0	616.5	1345.2	1473.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	178.9	225.2	586.8	1282.8	1466.2
115°	209.0	252.6	559.2	1184.6	1391.1
117.5°	235.6	276.4	542.8	1077.3	1296.0
120°	256.8	291.0	541.1	1016.0	1225.5
122.5°	273.8	308.0	536.9	962.1	1156.8
125°	295.0	327.1	533.7	885.7	1058.9
127.5°	318.1	348.2	532.0	840.0	982.8
130°	330.0	360.1	529.5	808.2	932.7
132.5°	342.7	372.0	529.5	783.3	897.9
135°	360.8	390.9	527.4	748.1	845.7
137.5°	377.7	407.0	527.1	718.4	802.6
140°	390.5	420.6	526.3	693.7	774.6
142.5°	404.9	430.0	528.8	673.9	746.6
145°	425.5	447.3	531.6	647.5	705.6
147.5°	443.1	464.3	536.3	620.8	671.0
150°	458.4	472.9	538.0	612.0	647.3
152.5°	470.3	485.6	539.7	600.0	632.8
155°	486.0	497.4	544.3	585.2	609.1
157.5°	505.5	512.3	545.4	578.5	595.5
160°	515.7	520.9	549.6	573.3	587.8
162.5°	521.6	527.6	550.5	569.0	580.2
165°	536.9	539.0	550.7	562.6	570.9
167.5°	547.3	545.4	555.6	561.0	564.3
170°	550.7	549.7	553.9	555.0	559.2
172.5°	558.3	554.8	556.4	553.3	556.6
175°	562.4	559.3	557.1	553.8	549.6
177.5°	564.1	559.1	556.4	553.0	553.9
180°	558.1	558.1	558.1	558.1	558.1

(END OF REPORT)