

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: P561524

Luminaire Tested: **SQ4-PC3-075U-050D-92765-1D-UNV-STD-W-4 (6500K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561524
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 (6500K)
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 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

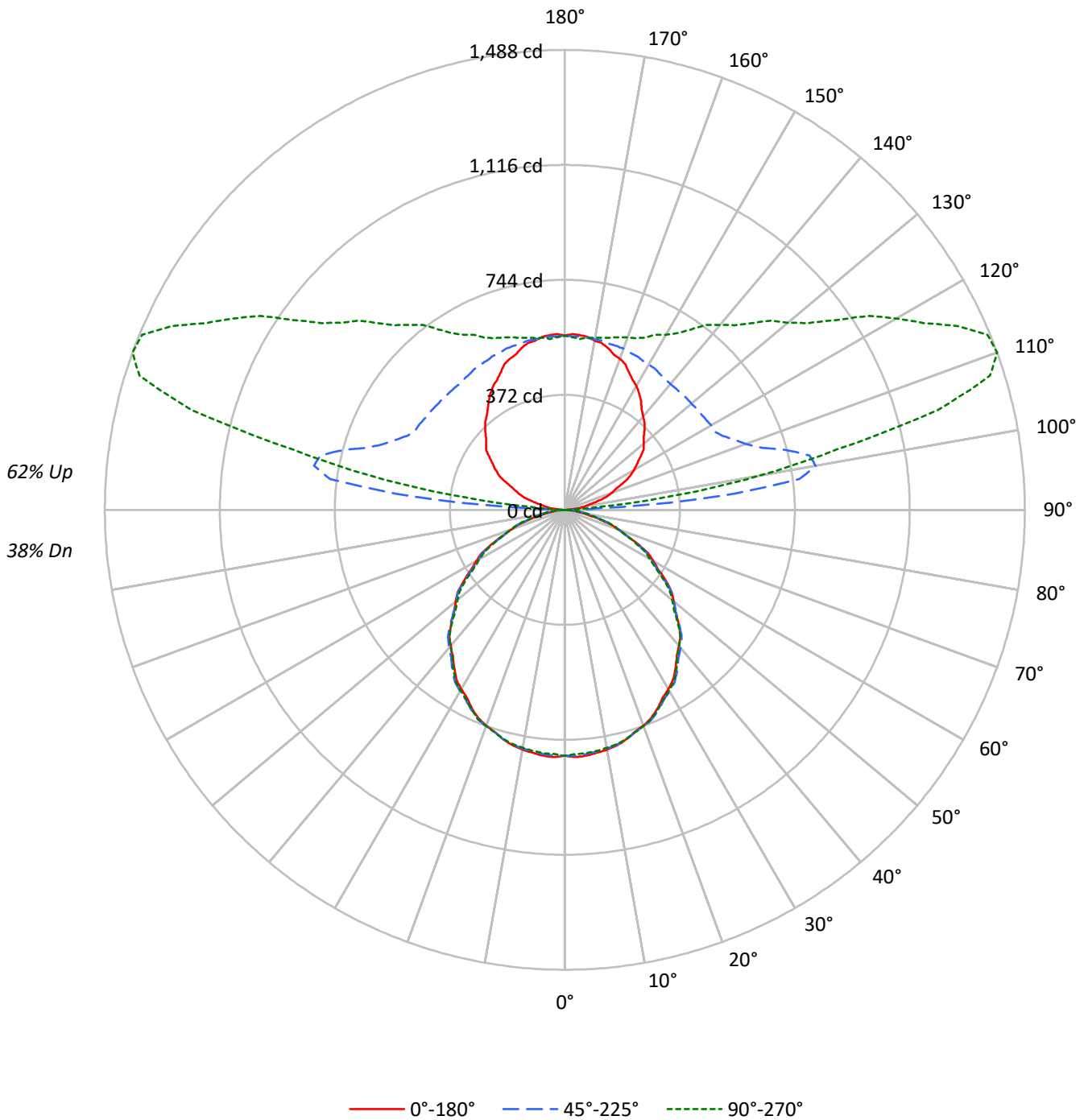
Lumens per Lamp: N/A
Luminaire Lumens: 5671.7 lumens
Efficiency: N/A
Efficacy: 128.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 44
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°	7342	7342	7342
5°	7398	7350	7323
10°	7380	7345	7324
15°	7340	7340	7334
20°	7293	7315	7315
25°	7224	7277	7253
30°	7136	7222	7191
35°	7029	7137	7088
40°	6913	7011	6940
45°	6787	6836	6730
50°	6610	6610	6505
55°	6400	6317	6223
60°	6091	5969	5873
65°	5630	5517	5469
70°	4928	4969	4950
75°	3968	4388	4413
80°	2821	3719	3756
85°	1715	3123	3123



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.3	1.3
10°-20°	216.1	3.8
20°-30°	327.3	5.8
30°-40°	392.4	6.9
40°-50°	400.1	7.1
50°-60°	349.3	6.2
60°-70°	250.0	4.4
70°-80°	128.8	2.3
80°-90°	32.6	0.6
90°-100°	256.7	4.5
100°-110°	730.5	12.9
110°-120°	699.9	12.3
120°-130°	553.9	9.8
130°-140°	444.6	7.8
140°-150°	348.1	6.1
150°-160°	254.7	4.5
160°-170°	157.8	2.8
170°-180°	53.5	0.9
0°-30°	618.8	10.9
0°-40°	1011.1	17.8
0°-60°	1760.5	31.0
0°-90°	2171.9	38.3
90°-120°	1687.1	29.7
90°-150°	3033.8	53.5
90°-180°	3500.0	61.7
0°-180°	5671.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	796	796	796	796	796	
5°	799	791	794	791	791	76
15°	768	762	768	768	768	217
25°	710	705	715	712	712	327
35°	624	623	634	629	629	390
45°	520	519	524	517	516	400
55°	398	393	393	387	387	355
65°	258	252	253	250	250	255
75°	111	116	123	124	124	120
85°	16	25	30	30	30	22
90°	0	0	0	0	0	2
95°	28	111	497	172	106	32
105°	114	172	744	1315	1250	120
115°	211	255	564	1196	1404	208
125°	298	330	539	894	1069	267
135°	364	395	532	755	854	281
145°	430	452	537	654	712	268
155°	491	502	550	591	615	227
165°	542	544	556	568	576	152
175°	568	565	562	559	555	54
180°	563	563	563	563	563	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	795.8	795.8	795.8	795.8	795.8
2.5°	800.5	793.6	795.8	794.0	791.1
5°	798.8	790.8	793.6	791.4	790.7
7.5°	793.0	785.1	788.7	787.2	786.5
10°	787.7	779.8	784.0	782.5	781.8
12.5°	780.6	773.3	778.1	776.6	776.5
15°	768.5	762.1	768.5	768.5	767.8
17.5°	753.4	747.5	754.4	754.8	754.4
20°	742.8	736.3	745.0	744.2	745.0
22.5°	729.8	724.5	733.8	731.9	732.6
25°	709.6	704.6	714.8	712.5	712.5
27.5°	685.7	682.1	693.2	690.9	690.9
30°	669.8	666.2	677.9	675.0	675.0
32.5°	652.1	649.7	660.8	657.3	657.3
35°	624.1	622.7	633.7	629.3	629.3
37.5°	595.2	593.9	603.9	598.6	596.9
40°	574.0	573.3	582.1	576.2	576.2
42.5°	552.8	552.1	559.7	552.6	552.6
45°	520.2	518.8	523.9	517.2	515.8
47.5°	484.7	483.3	486.5	479.2	478.5
50°	460.5	459.1	460.5	453.9	453.2
52.5°	435.8	433.2	433.4	426.8	426.6
55°	397.9	392.9	392.7	386.9	386.9
57.5°	357.8	351.2	351.8	346.8	346.0
60°	330.1	322.9	323.5	319.0	318.3
62.5°	303.0	294.6	296.4	291.4	291.2
65°	257.9	252.1	252.7	250.5	250.5
67.5°	214.6	209.2	213.1	211.3	211.2
70°	182.7	179.1	184.2	184.2	183.5
72.5°	153.3	153.1	159.5	159.5	159.9
75°	111.3	116.3	123.1	123.8	123.8
77.5°	74.3	83.2	90.6	90.9	90.8
80°	53.1	63.1	70.0	71.5	70.7
82.5°	36.0	46.6	52.3	53.8	53.1
85°	16.2	24.9	29.5	30.2	29.5
87.5°	4.7	9.9	11.8	11.8	10.6
90°	0.0	0.0	0.0	0.0	0.0
92.5°	8.6	45.4	105.4	30.7	23.1
95°	27.8	110.6	497.0	172.0	106.0
97.5°	51.2	129.5	765.4	547.7	375.3
100°	67.5	140.8	823.7	834.3	642.7
102.5°	85.5	152.9	810.8	1068.0	900.6
105°	113.5	172.2	744.4	1314.9	1250.0
107.5°	142.0	194.6	666.9	1384.6	1442.4
110°	161.7	211.0	622.3	1357.9	1487.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	180.6	227.3	592.3	1294.9	1480.1
115°	211.0	255.0	564.5	1195.8	1404.3
117.5°	237.8	279.1	548.0	1087.5	1308.3
120°	259.2	293.8	546.3	1025.6	1237.2
122.5°	276.4	310.9	542.0	971.3	1167.7
125°	297.8	330.2	538.8	894.1	1069.0
127.5°	321.1	351.5	537.1	848.0	992.1
130°	333.1	363.5	534.5	815.8	941.5
132.5°	346.0	375.5	534.5	790.8	906.4
135°	364.2	394.6	532.4	755.2	853.7
137.5°	381.3	410.9	532.1	725.2	810.2
140°	394.2	424.5	531.3	700.2	781.9
142.5°	408.7	434.1	533.9	680.3	753.6
145°	429.5	451.5	536.6	653.7	712.3
147.5°	447.3	468.7	541.4	626.7	677.4
150°	462.7	477.4	543.1	617.8	653.4
152.5°	474.7	490.2	544.8	605.7	638.8
155°	490.6	502.1	549.5	590.7	614.8
157.5°	510.3	517.2	550.6	583.9	601.1
160°	520.6	525.8	554.8	578.7	593.4
162.5°	526.6	532.6	555.7	574.4	585.7
165°	542.0	544.1	555.9	567.9	576.3
167.5°	552.5	550.6	560.8	566.3	569.6
170°	555.9	554.9	559.1	560.3	564.5
172.5°	563.6	560.1	561.7	558.6	561.9
175°	567.7	564.6	562.3	559.0	554.8
177.5°	569.4	564.4	561.7	558.3	559.1
180°	563.4	563.4	563.4	563.4	563.4

(END OF REPORT)