

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: P561628

Luminaire Tested: **SQ4-PC3-100U-050D-92765-1D-UNV-STD-W-4 (6500K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561628
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-PC3-100U-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 1000 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

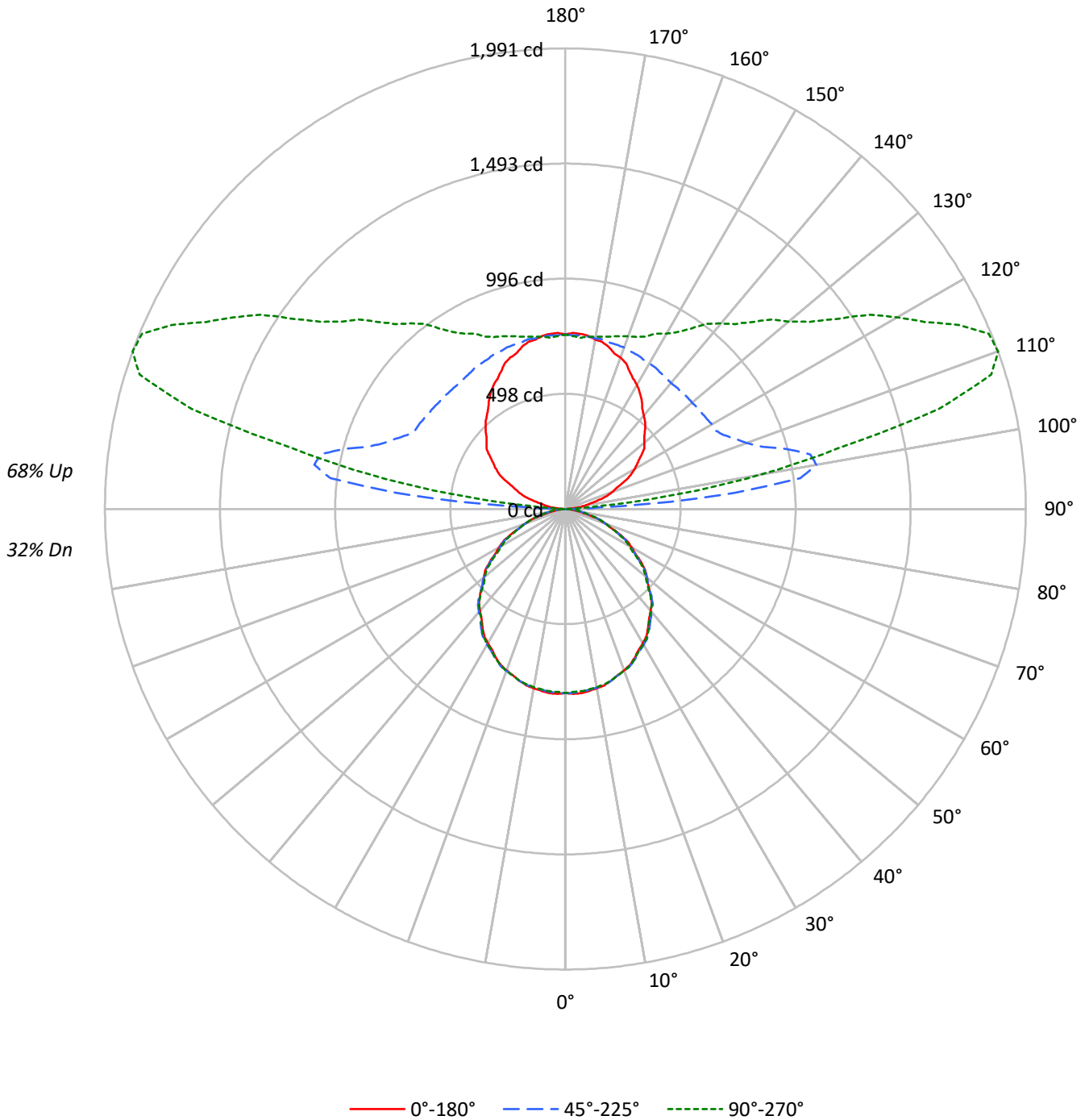
Lumens per Lamp: N/A
Luminaire Lumens: 6855.5 lumens
Efficiency: N/A
Efficacy: 130.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 52.7
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	103	103	103	103	92	92	92	92	73	73	73	56	56	56	39	39	39	32
1	94	90	86	82	84	81	78	75	64	62	60	49	47	46	35	34	33	27
2	85	78	72	67	76	70	65	61	56	53	50	43	41	39	31	29	28	22
3	78	69	62	56	70	62	56	51	49	45	42	38	35	33	27	25	24	19
4	71	61	53	47	64	55	48	43	44	39	35	34	30	28	24	22	20	16
5	65	54	46	40	58	49	42	37	39	34	30	30	27	24	22	20	18	14
6	60	48	40	35	54	44	37	32	35	30	26	27	24	21	20	17	16	12
7	55	43	36	30	50	39	33	28	32	27	23	25	21	18	18	16	14	11
8	51	39	32	27	46	36	29	24	29	24	20	22	19	16	16	14	12	10
9	48	36	28	23	43	32	26	22	26	21	18	21	17	15	15	13	11	9
10	44	33	26	21	40	30	23	19	24	19	16	19	15	13	14	12	10	8

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	1.1
10°-20°	216.1	3.2
20°-30°	327.3	4.8
30°-40°	392.4	5.7
40°-50°	400.1	5.8
50°-60°	349.3	5.1
60°-70°	250.0	3.6
70°-80°	128.8	1.9
80°-90°	32.6	0.5
90°-100°	343.6	5.0
100°-110°	977.6	14.3
110°-120°	936.6	13.7
120°-130°	741.3	10.8
130°-140°	595.0	8.7
140°-150°	465.8	6.8
150°-160°	340.8	5.0
160°-170°	211.1	3.1
170°-180°	71.6	1.0
0°-30°	618.8	9.0
0°-40°	1011.1	14.7
0°-60°	1760.5	25.7
0°-90°	2171.9	31.7
90°-120°	2257.8	32.9
90°-150°	4059.9	59.2
90°-180°	4684.0	68.3
0°-180°	6855.5	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°	37	148	665	230	142	43
105°	152	230	996	1760	1673	161
115°	282	341	755	1600	1879	278
125°	398	442	721	1196	1431	357
135°	487	528	712	1011	1142	376
145°	575	604	718	875	953	359
155°	656	672	735	791	823	303
165°	725	728	744	760	771	204
175°	760	756	753	748	742	72
180°	754	754	754	754	754	

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CATALOG NUMBER: SQ4-PC3-100U-050D-92765-1D-UNV-STD-W-4 (6500K)

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°	11.5	60.8	141.1	41.1	31.0
95°	37.3	148.0	665.1	230.2	141.9
97.5°	68.5	173.4	1024.3	733.0	502.3
100°	90.3	188.4	1102.3	1116.6	860.1
102.5°	114.4	204.7	1085.1	1429.2	1205.2
105°	151.9	230.4	996.2	1759.7	1672.8
107.5°	190.1	260.4	892.5	1852.9	1930.3
110°	216.4	282.3	832.8	1817.3	1991.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	241.7	304.2	792.7	1732.9	1980.7
115°	282.4	341.3	755.4	1600.3	1879.2
117.5°	318.2	373.4	733.3	1455.4	1750.8
120°	346.9	393.1	731.1	1372.5	1655.6
122.5°	369.8	416.1	725.3	1299.8	1562.7
125°	398.5	441.9	721.0	1196.5	1430.6
127.5°	429.7	470.4	718.7	1134.8	1327.7
130°	445.8	486.4	715.3	1091.8	1260.0
132.5°	463.0	502.5	715.3	1058.2	1213.0
135°	487.4	528.0	712.4	1010.7	1142.5
137.5°	510.3	549.8	712.1	970.4	1084.3
140°	527.5	568.2	711.0	937.1	1046.4
142.5°	547.0	580.9	714.4	910.5	1008.6
145°	574.8	604.2	718.2	874.7	953.2
147.5°	598.6	627.2	724.5	838.7	906.5
150°	619.2	638.9	726.8	826.7	874.4
152.5°	635.3	656.0	729.0	810.6	854.9
155°	656.5	671.9	735.4	790.6	822.8
157.5°	682.9	692.1	736.8	781.5	804.4
160°	696.7	703.7	742.5	774.5	794.1
162.5°	704.7	712.8	743.7	768.7	783.8
165°	725.3	728.1	744.0	760.0	771.2
167.5°	739.4	736.8	750.6	757.8	762.3
170°	744.0	742.6	748.3	749.8	755.4
172.5°	754.3	749.5	751.7	747.5	752.0
175°	759.7	755.5	752.6	748.1	742.5
177.5°	762.0	755.3	751.7	747.1	748.3
180°	754.0	754.0	754.0	754.0	754.0

(END OF REPORT)