

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: P561680

Luminaire Tested: **SQ4-PC3-125U-050D-92765-1D-UNV-STD-W-4 (6500K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561680
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-PC3-125U-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 1250 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

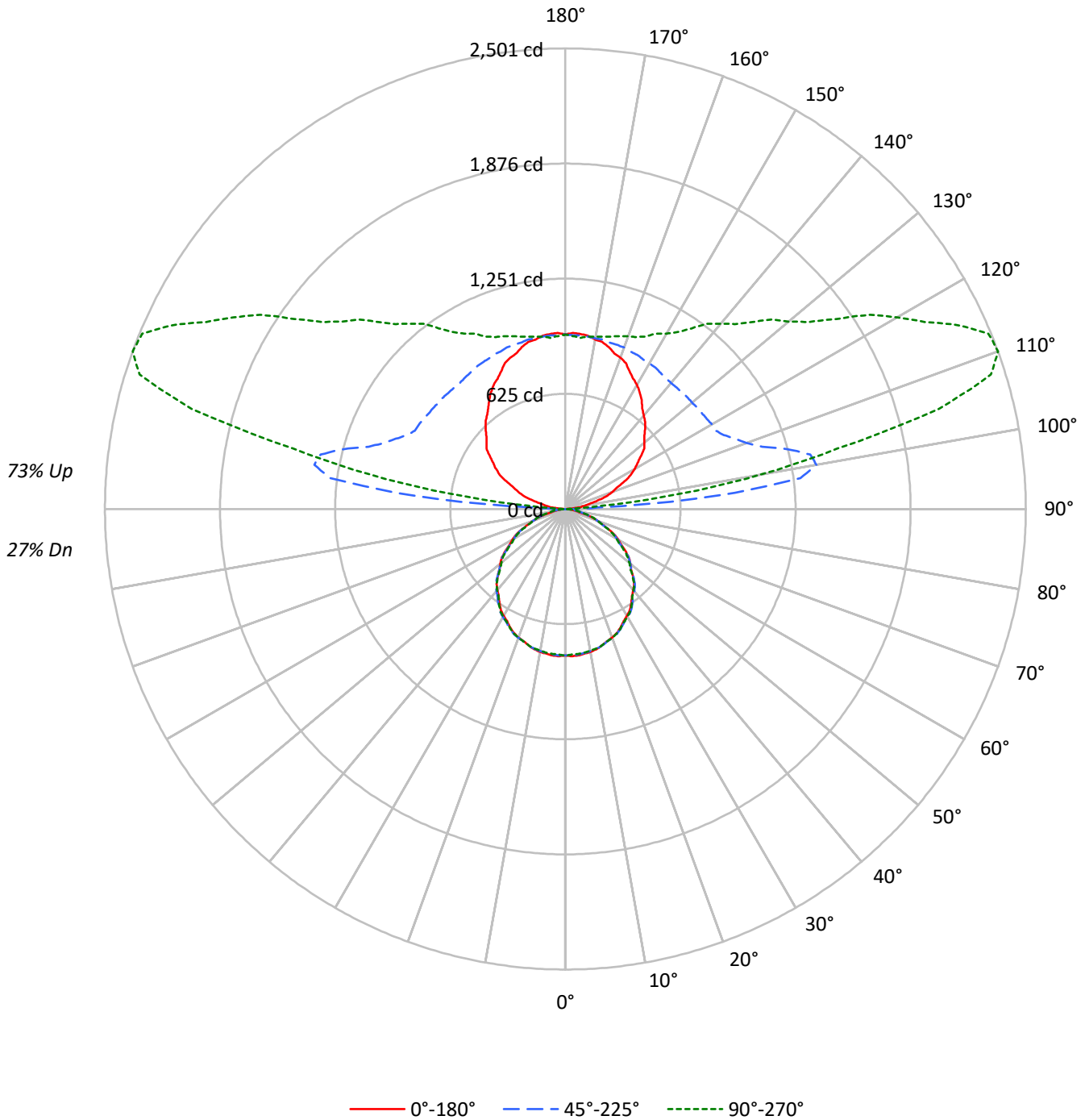
Lumens per Lamp: N/A
Luminaire Lumens: 8054.4 lumens
Efficiency: N/A
Efficacy: 130.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 61.7
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	50	30	10	0	
RCR																						
0	102	102	102	102	91	91	91	91	71	71	71	52	52	52	35	35	35	27				
1	93	89	85	81	83	79	76	73	62	60	58	46	44	43	31	30	30	23				
2	84	77	71	66	75	69	64	60	54	51	48	40	38	36	27	26	25	19				
3	77	68	61	55	68	61	55	50	48	43	40	35	33	30	24	22	21	16				
4	70	60	52	47	62	54	47	42	42	38	34	31	28	26	21	20	18	14				
5	64	53	45	40	57	48	41	36	38	33	29	28	25	22	19	17	16	12				
6	59	48	40	34	53	43	36	31	34	29	25	25	22	19	17	15	14	11				
7	55	43	35	30	49	38	32	27	30	26	22	23	20	17	16	14	12	9				
8	50	39	31	26	45	35	28	24	28	23	19	21	18	15	15	12	11	8				
9	47	35	28	23	42	32	25	21	25	21	17	19	16	14	13	11	10	7				
10	44	32	25	20	39	29	23	19	23	19	15	18	14	12	12	10	9	7				

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	0.9
10°-20°	216.1	2.7
20°-30°	327.3	4.1
30°-40°	392.4	4.9
40°-50°	400.1	5.0
50°-60°	349.3	4.3
60°-70°	250.0	3.1
70°-80°	128.8	1.6
80°-90°	32.6	0.4
90°-100°	431.5	5.4
100°-110°	1227.8	15.2
110°-120°	1176.4	14.6
120°-130°	931.1	11.6
130°-140°	747.3	9.3
140°-150°	585.1	7.3
150°-160°	428.1	5.3
160°-170°	265.2	3.3
170°-180°	90.0	1.1
0°-30°	618.8	7.7
0°-40°	1011.1	12.6
0°-60°	1760.5	21.9
0°-90°	2171.9	27.0
90°-120°	2835.8	35.2
90°-150°	5099.2	63.3
90°-180°	5882.0	73.0
0°-180°	8054.4	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	3
95°	47	186	835	289	178	54
105°	191	289	1251	2210	2101	202
115°	355	429	949	2010	2360	349
125°	500	555	906	1503	1797	448
135°	612	663	895	1269	1435	472
145°	722	759	902	1099	1197	451
155°	825	844	924	993	1033	381
165°	911	914	934	954	969	256
175°	954	949	945	940	933	90
180°	947	947	947	947	947	

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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°	14.4	76.4	177.2	51.6	38.9
95°	46.8	185.9	835.4	289.1	178.2
97.5°	86.1	217.7	1286.6	920.6	630.9
100°	113.4	236.6	1384.5	1402.4	1080.2
102.5°	143.7	257.0	1362.9	1795.1	1513.8
105°	190.8	289.4	1251.3	2210.2	2101.0
107.5°	238.7	327.1	1120.9	2327.2	2424.4
110°	271.9	354.6	1046.0	2282.4	2500.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	303.5	382.1	995.6	2176.5	2487.8
115°	354.7	428.6	948.8	2010.0	2360.3
117.5°	399.7	469.0	921.1	1827.9	2199.0
120°	435.7	493.8	918.2	1723.8	2079.4
122.5°	464.5	522.6	911.0	1632.5	1962.8
125°	500.5	555.1	905.6	1502.8	1796.8
127.5°	539.8	590.8	902.7	1425.3	1667.5
130°	559.9	611.0	898.4	1371.3	1582.5
132.5°	581.5	631.2	898.4	1329.1	1523.5
135°	612.1	663.2	894.8	1269.4	1434.9
137.5°	640.9	690.6	894.4	1218.9	1361.8
140°	662.5	713.6	893.0	1177.0	1314.3
142.5°	687.0	729.6	897.3	1143.5	1266.7
145°	722.0	758.9	902.0	1098.7	1197.3
147.5°	751.8	787.8	909.9	1053.4	1138.6
150°	777.8	802.4	912.8	1038.4	1098.2
152.5°	797.9	824.0	915.7	1018.1	1073.7
155°	824.6	843.9	923.6	992.9	1033.4
157.5°	857.7	869.3	925.4	981.5	1010.4
160°	875.0	883.8	932.6	972.8	997.4
162.5°	885.1	895.3	934.0	965.4	984.4
165°	911.0	914.5	934.4	954.5	968.6
167.5°	928.6	925.5	942.7	951.8	957.4
170°	934.4	932.6	939.8	941.8	948.8
172.5°	947.4	941.4	944.1	938.8	944.5
175°	954.2	948.9	945.2	939.6	932.6
177.5°	957.1	948.6	944.1	938.4	939.8
180°	947.0	947.0	947.0	947.0	947.0

(END OF REPORT)