

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: P562041

Luminaire Tested: **SQ4-PR1-125U-050D-92765-1D-UNV-STD-W-4 (4500K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562041
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PR1-125U-050D-92765-1D-UNV-STD-W-4 (4500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

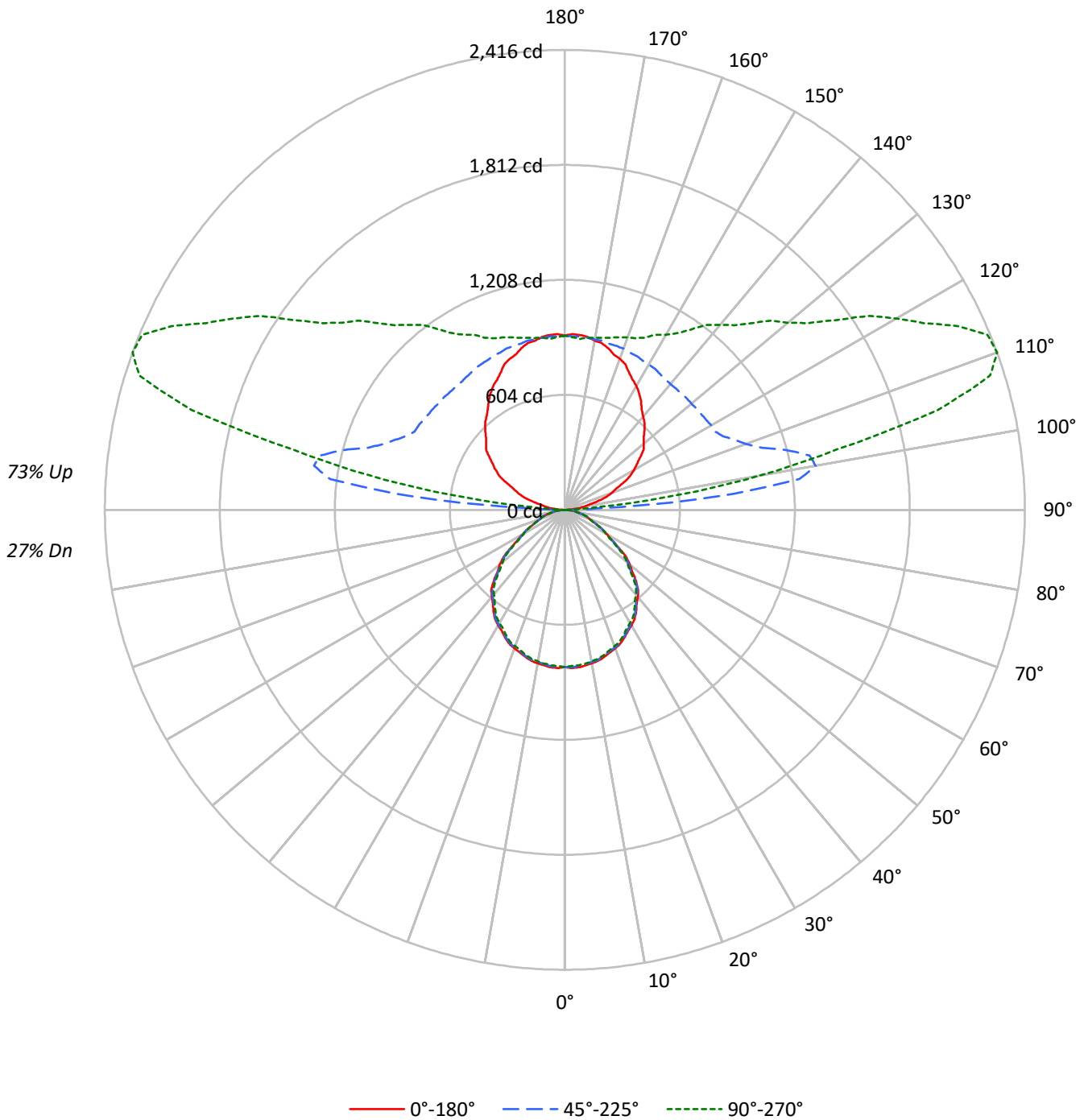
Lumens per Lamp: N/A
Luminaire Lumens: 7748.5 lumens
Efficiency: N/A
Efficacy: 124.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 62.1
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	102	102	102	102	91	91	91	91	70	70	70	52	52	52	35	35	35	27
1	93	89	85	82	83	79	76	73	62	60	58	46	44	43	31	30	30	23
2	85	77	72	67	75	69	65	60	54	51	48	40	38	36	27	26	25	19
3	77	68	61	56	69	61	55	51	48	44	41	36	33	31	24	23	22	17
4	71	60	53	47	63	54	48	43	43	38	35	32	29	26	22	20	19	14
5	65	54	46	40	58	48	42	37	38	33	30	29	25	23	20	18	16	12
6	59	48	40	35	53	43	37	32	34	29	26	26	22	20	18	16	14	11
7	55	43	36	30	49	39	32	28	31	26	23	23	20	18	16	14	13	10
8	51	39	32	27	45	35	29	24	28	23	20	21	18	16	15	13	11	9
9	47	36	28	24	42	32	26	22	26	21	18	20	16	14	14	12	10	8
10	44	32	26	21	39	29	23	19	23	19	16	18	15	13	13	11	9	7

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7625	7625	7625
5°	7693	7634	7594
10°	7669	7616	7575
15°	7636	7588	7547
20°	7596	7548	7492
25°	7543	7492	7406
30°	7462	7408	7303
35°	7351	7287	7184
40°	7184	7107	6978
45°	6892	6771	6631
50°	6376	6222	6100
55°	5564	5438	5324
60°	4689	4650	4558
65°	4056	4071	4041
70°	3725	3744	3744
75°	3579	3579	3604
80°	3369	3406	3369
85°	2710	3017	3017



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.1	1.0
10°-20°	223.6	2.9
20°-30°	337.3	4.4
30°-40°	401.8	5.2
40°-50°	396.2	5.1
50°-60°	302.8	3.9
60°-70°	187.4	2.4
70°-80°	106.4	1.4
80°-90°	32.4	0.4
90°-100°	416.8	5.4
100°-110°	1186.1	15.3
110°-120°	1136.4	14.7
120°-130°	899.4	11.6
130°-140°	721.9	9.3
140°-150°	565.2	7.3
150°-160°	413.5	5.3
160°-170°	256.2	3.3
170°-180°	86.9	1.1
0°-30°	639.0	8.2
0°-40°	1040.8	13.4
0°-60°	1739.8	22.5
0°-90°	2066.0	26.7
90°-120°	2739.4	35.4
90°-150°	4925.9	63.6
90°-180°	5682.0	73.3
0°-180°	7748.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	826	826	826	826	826	
5°	831	822	824	821	820	79
15°	799	791	794	792	790	226
25°	741	732	736	728	728	341
35°	653	645	647	638	638	407
45°	528	521	519	510	508	405
55°	346	340	338	332	331	310
65°	186	184	186	185	185	188
75°	100	100	100	101	101	106
85°	26	27	28	28	28	30
90°	0	0	0	0	0	3
95°	45	180	807	279	172	52
105°	184	280	1209	2135	2030	195
115°	343	414	916	1942	2280	337
125°	484	536	875	1452	1736	433
135°	591	641	864	1226	1386	456
145°	697	733	871	1061	1157	436
155°	796	815	892	959	998	368
165°	880	883	903	922	936	247
175°	922	917	913	908	901	87
180°	915	915	915	915	915	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	826.4	826.4	826.4	826.4	826.4
2.5°	831.5	824.3	826.4	824.6	820.7
5°	830.7	821.6	824.3	821.4	820.0
7.5°	824.3	815.4	818.0	815.1	814.3
10°	818.6	810.2	812.9	810.0	808.6
12.5°	812.3	803.4	806.6	803.2	801.8
15°	799.4	791.0	794.4	791.5	790.1
17.5°	785.1	776.2	779.6	776.3	774.5
20°	773.7	765.4	768.8	763.8	763.1
22.5°	761.2	752.9	756.2	749.5	749.4
25°	741.0	731.9	736.0	728.2	727.5
27.5°	716.9	708.6	712.0	704.0	703.1
30°	700.4	692.1	695.4	686.9	685.5
32.5°	681.6	673.8	676.6	668.1	667.3
35°	652.7	645.1	647.0	638.5	637.8
37.5°	619.8	612.9	614.0	604.6	603.9
40°	596.5	589.5	590.1	580.1	579.4
42.5°	570.9	563.9	563.3	553.3	552.7
45°	528.2	521.2	518.9	509.6	508.2
47.5°	479.5	472.5	468.2	460.7	459.7
50°	444.2	437.2	433.5	427.0	425.0
52.5°	406.0	399.1	395.9	390.0	387.9
55°	345.9	340.4	338.1	332.4	331.0
57.5°	288.9	285.1	284.4	278.9	278.3
60°	254.1	252.0	252.0	247.0	247.0
62.5°	224.5	223.0	224.1	220.8	220.2
65°	185.8	184.4	186.5	185.1	185.1
67.5°	155.2	155.2	156.5	155.9	155.9
70°	138.1	138.1	138.8	138.8	138.8
72.5°	122.7	122.2	124.0	124.0	123.4
75°	100.4	100.4	100.4	101.1	101.1
77.5°	78.2	78.3	78.9	78.7	78.2
80°	63.4	64.0	64.1	63.4	63.4
82.5°	48.5	49.2	49.3	49.1	48.5
85°	25.6	27.0	28.5	28.5	28.5
87.5°	7.4	9.6	11.4	11.4	10.8
90°	0.0	0.0	0.0	0.0	0.0
92.5°	13.9	73.8	171.1	49.8	37.6
95°	45.2	179.6	807.0	279.3	172.2
97.5°	83.1	210.3	1242.8	889.3	609.4
100°	109.6	228.6	1337.4	1354.7	1043.5
102.5°	138.8	248.3	1316.6	1734.0	1462.3
105°	184.4	279.6	1208.7	2135.1	2029.6
107.5°	230.6	316.0	1082.8	2248.1	2342.0
110°	262.6	342.5	1010.5	2204.9	2415.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	293.2	369.1	961.8	2102.5	2403.2
115°	342.6	414.0	916.5	1941.7	2280.1
117.5°	386.1	453.1	889.8	1765.8	2124.2
120°	420.9	477.0	887.0	1665.2	2008.8
122.5°	448.7	504.8	880.0	1577.0	1896.1
125°	483.5	536.2	874.8	1451.7	1735.7
127.5°	521.4	570.7	872.0	1376.8	1610.8
130°	540.9	590.2	867.9	1324.7	1528.7
132.5°	561.8	609.7	867.9	1284.0	1471.7
135°	591.3	640.6	864.4	1226.3	1386.1
137.5°	619.1	667.1	864.0	1177.4	1315.5
140°	640.0	689.3	862.6	1137.0	1269.6
142.5°	663.7	704.8	866.8	1104.6	1223.7
145°	697.4	733.1	871.3	1061.3	1156.6
147.5°	726.3	761.0	879.0	1017.6	1099.9
150°	751.3	775.1	881.8	1003.1	1060.9
152.5°	770.8	796.0	884.5	983.5	1037.2
155°	796.5	815.2	892.2	959.2	998.3
157.5°	828.5	839.8	893.9	948.1	976.0
160°	845.2	853.7	900.9	939.7	963.5
162.5°	855.0	864.8	902.3	932.6	951.0
165°	880.0	883.4	902.6	922.1	935.7
167.5°	897.1	894.0	910.6	919.5	924.9
170°	902.6	900.9	907.9	909.7	916.5
172.5°	915.2	909.4	912.0	906.9	912.4
175°	921.8	916.7	913.1	907.7	900.9
177.5°	924.5	916.4	912.0	906.5	907.9
180°	914.8	914.8	914.8	914.8	914.8

(END OF REPORT)