

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: P564238

Luminaire Tested: **SQ4-PR1-100U-050D-835-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564238
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, 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-PR1-100U-050D-835-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

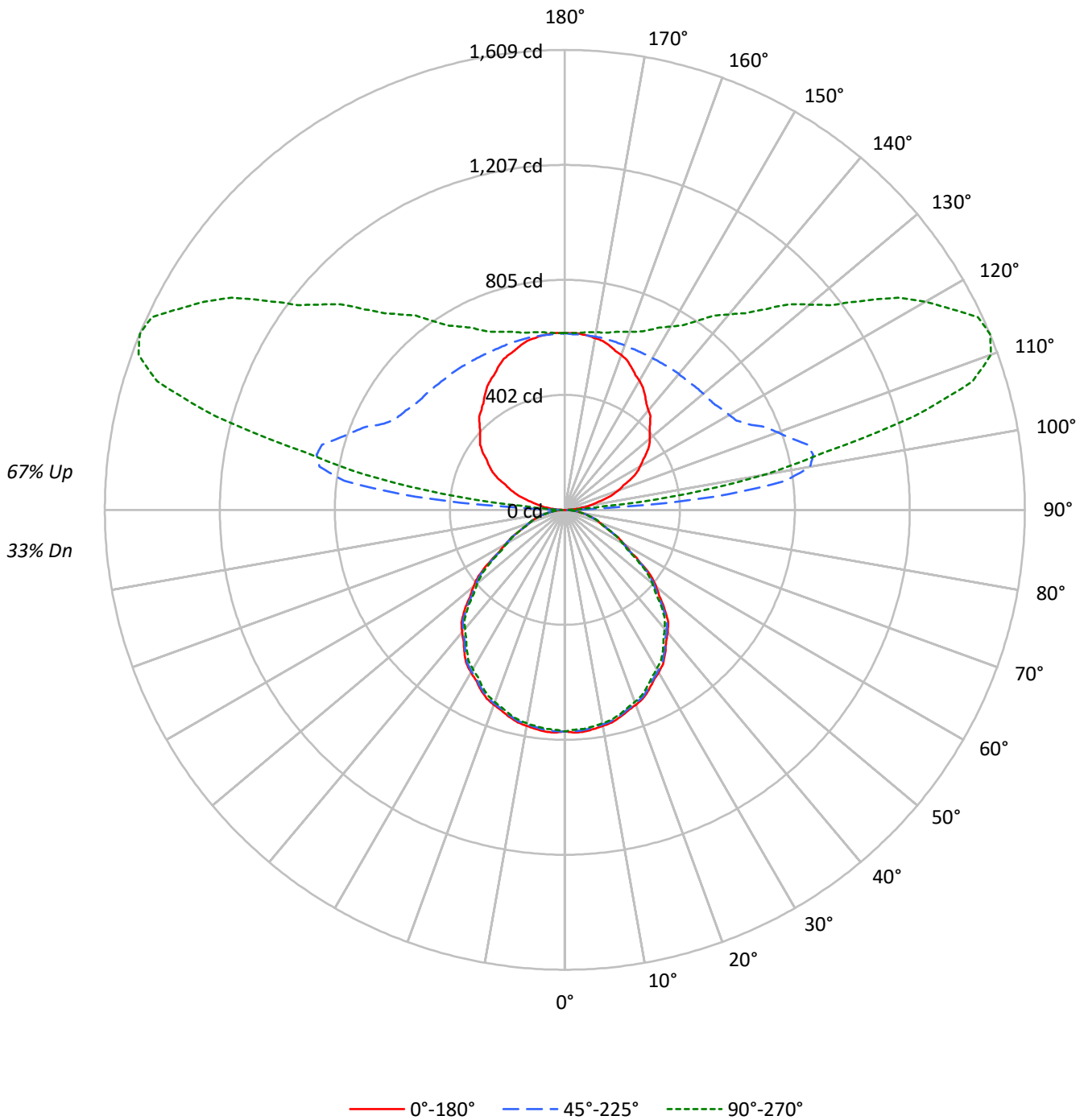
Lumens per Lamp: N/A
Luminaire Lumens: 5955.4 lumens
Efficiency: N/A
Efficacy: 144.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 41.3
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	93	93	93	93	74	74	74	56	56	56	40	40	40	33
1	94	90	86	83	85	81	78	75	65	63	61	50	48	47	36	35	34	28
2	86	79	73	68	77	71	66	62	57	53	50	44	42	40	32	30	29	24
3	78	69	62	57	70	63	57	52	50	46	43	39	36	34	28	26	25	20
4	72	61	54	48	64	56	49	44	45	40	36	35	31	29	25	23	22	17
5	66	55	47	41	59	50	43	38	40	35	31	31	28	25	23	21	19	15
6	60	49	41	35	54	44	38	33	36	31	27	28	25	22	21	18	17	13
7	56	44	36	31	50	40	33	29	33	28	24	25	22	19	19	17	15	12
8	52	40	32	27	47	36	30	25	30	25	21	23	20	17	17	15	13	11
9	48	36	29	24	43	33	27	22	27	22	19	21	18	15	16	14	12	10
10	45	33	26	22	40	30	24	20	25	20	17	20	16	14	15	12	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7152	7152	7152
5°	7217	7161	7123
10°	7193	7144	7106
15°	7162	7117	7079
20°	7126	7080	7027
25°	7075	7028	6947
30°	6999	6949	6850
35°	6895	6836	6738
40°	6739	6666	6546
45°	6464	6350	6220
50°	5980	5836	5721
55°	5220	5101	4995
60°	4399	4362	4275
65°	3805	3818	3790
70°	3493	3512	3512
75°	3354	3354	3379
80°	3156	3193	3156
85°	2541	2826	2826



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.3	1.2
10°-20°	209.7	3.5
20°-30°	316.3	5.3
30°-40°	376.9	6.3
40°-50°	371.6	6.2
50°-60°	284.0	4.8
60°-70°	175.8	3.0
70°-80°	99.8	1.7
80°-90°	31.6	0.5
90°-100°	289.5	4.9
100°-110°	799.1	13.4
110°-120°	824.2	13.8
120°-130°	662.3	11.1
130°-140°	520.5	8.7
140°-150°	399.2	6.7
150°-160°	286.9	4.8
160°-170°	175.5	2.9
170°-180°	59.2	1.0
0°-30°	599.4	10.1
0°-40°	976.3	16.4
0°-60°	1631.9	27.4
0°-90°	1939.1	32.6
90°-120°	1912.8	32.1
90°-150°	3494.8	58.7
90°-180°	4016.0	67.4
0°-180°	5955.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	775	775	775	775	775	
5°	779	771	773	770	769	74
15°	750	742	745	742	741	212
25°	695	687	690	683	682	320
35°	612	605	607	599	598	382
45°	495	489	487	478	477	380
55°	324	319	317	312	310	291
65°	174	173	175	174	174	177
75°	94	94	94	95	95	99
85°	24	25	27	27	27	28
90°	2	4	8	9	10	4
95°	42	157	525	216	140	45
105°	142	220	879	1342	1264	152
115°	255	308	708	1402	1594	251
125°	350	398	642	1086	1275	312
135°	421	467	624	880	992	326
145°	489	522	616	749	806	306
155°	551	569	611	672	693	254
165°	596	604	614	638	643	168
175°	618	619	615	624	622	59
180°	618	618	618	618	618	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	775.2	775.2	775.2	775.2	775.2
2.5°	780.0	773.2	775.2	773.5	769.8
5°	779.2	770.7	773.2	770.5	769.1
7.5°	773.2	764.8	767.3	764.6	763.8
10°	767.8	760.0	762.5	759.8	758.5
12.5°	761.9	753.6	756.6	753.4	752.1
15°	749.8	742.0	745.1	742.4	741.1
17.5°	736.4	728.1	731.2	728.1	726.4
20°	725.8	717.9	721.1	716.4	715.7
22.5°	714.0	706.2	709.3	703.0	702.9
25°	695.0	686.6	690.4	683.0	682.4
27.5°	672.5	664.6	667.8	660.3	659.5
30°	657.0	649.1	652.3	644.3	643.0
32.5°	639.4	632.0	634.7	626.7	625.9
35°	612.2	605.1	606.9	598.9	598.2
37.5°	581.4	574.9	575.9	567.1	566.4
40°	559.5	553.0	553.5	544.1	543.5
42.5°	535.5	528.9	528.4	519.0	518.4
45°	495.4	488.9	486.7	478.0	476.7
47.5°	449.7	443.2	439.2	432.1	431.2
50°	416.6	410.1	406.6	400.6	398.6
52.5°	380.8	374.3	371.4	365.8	363.9
55°	324.5	319.3	317.1	311.8	310.5
57.5°	270.9	267.4	266.8	261.6	261.1
60°	238.4	236.4	236.4	231.7	231.7
62.5°	210.6	209.1	210.2	207.1	206.6
65°	174.3	173.0	174.9	173.6	173.6
67.5°	145.6	145.6	146.8	146.2	146.2
70°	129.5	129.5	130.2	130.2	130.2
72.5°	115.1	114.6	116.3	116.3	115.8
75°	94.1	94.1	94.1	94.8	94.8
77.5°	73.3	73.4	74.0	73.8	73.3
80°	59.4	60.1	60.1	59.4	59.4
82.5°	45.5	46.2	46.2	46.1	45.5
85°	24.0	25.3	26.7	26.7	26.7
87.5°	7.3	9.8	12.3	12.5	12.1
90°	2.0	3.9	7.9	8.9	9.9
92.5°	17.8	73.9	132.1	48.2	37.6
95°	42.5	156.6	525.2	215.9	140.4
97.5°	70.4	175.4	778.0	599.0	433.8
100°	91.0	186.7	871.3	877.5	713.1
102.5°	110.8	199.5	889.5	1084.2	928.3
105°	142.4	219.8	879.2	1342.3	1264.0
107.5°	176.0	244.9	830.2	1466.8	1495.4
110°	199.8	261.7	792.2	1493.5	1586.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	221.1	280.7	756.6	1472.4	1609.3
115°	255.2	308.4	708.1	1401.9	1594.3
117.5°	284.8	337.8	676.3	1302.6	1521.5
120°	304.6	356.8	663.6	1235.3	1455.8
122.5°	323.6	373.5	653.3	1172.6	1381.5
125°	350.1	398.5	641.9	1086.3	1274.8
127.5°	372.7	421.0	635.1	1013.3	1175.9
130°	387.7	436.0	632.0	968.6	1116.6
132.5°	401.9	448.0	628.8	931.1	1065.2
135°	421.3	466.8	624.1	879.8	992.0
137.5°	443.1	484.5	621.7	836.7	932.4
140°	454.9	495.6	620.1	808.0	892.1
142.5°	468.4	505.9	618.5	782.4	856.5
145°	488.6	522.4	616.2	749.0	806.0
147.5°	508.0	537.5	614.0	720.8	765.1
150°	522.2	546.4	613.2	704.0	739.8
152.5°	533.3	555.9	612.4	689.6	719.2
155°	550.9	569.3	611.2	672.0	693.3
157.5°	567.1	581.2	611.4	659.2	673.7
160°	576.6	589.2	612.2	652.0	662.6
162.5°	584.5	595.5	613.0	645.6	653.9
165°	596.4	604.1	614.2	638.0	642.9
167.5°	605.5	610.1	615.2	633.4	634.9
170°	610.2	614.1	615.2	631.0	631.0
172.5°	614.2	616.5	615.2	627.8	627.0
175°	618.1	619.1	615.2	624.0	622.1
177.5°	619.7	618.9	615.0	620.5	618.9
180°	618.1	618.1	618.1	618.1	618.1

(END OF REPORT)