

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: P563950

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

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563950
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, 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-PR1-050U-050D-835-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

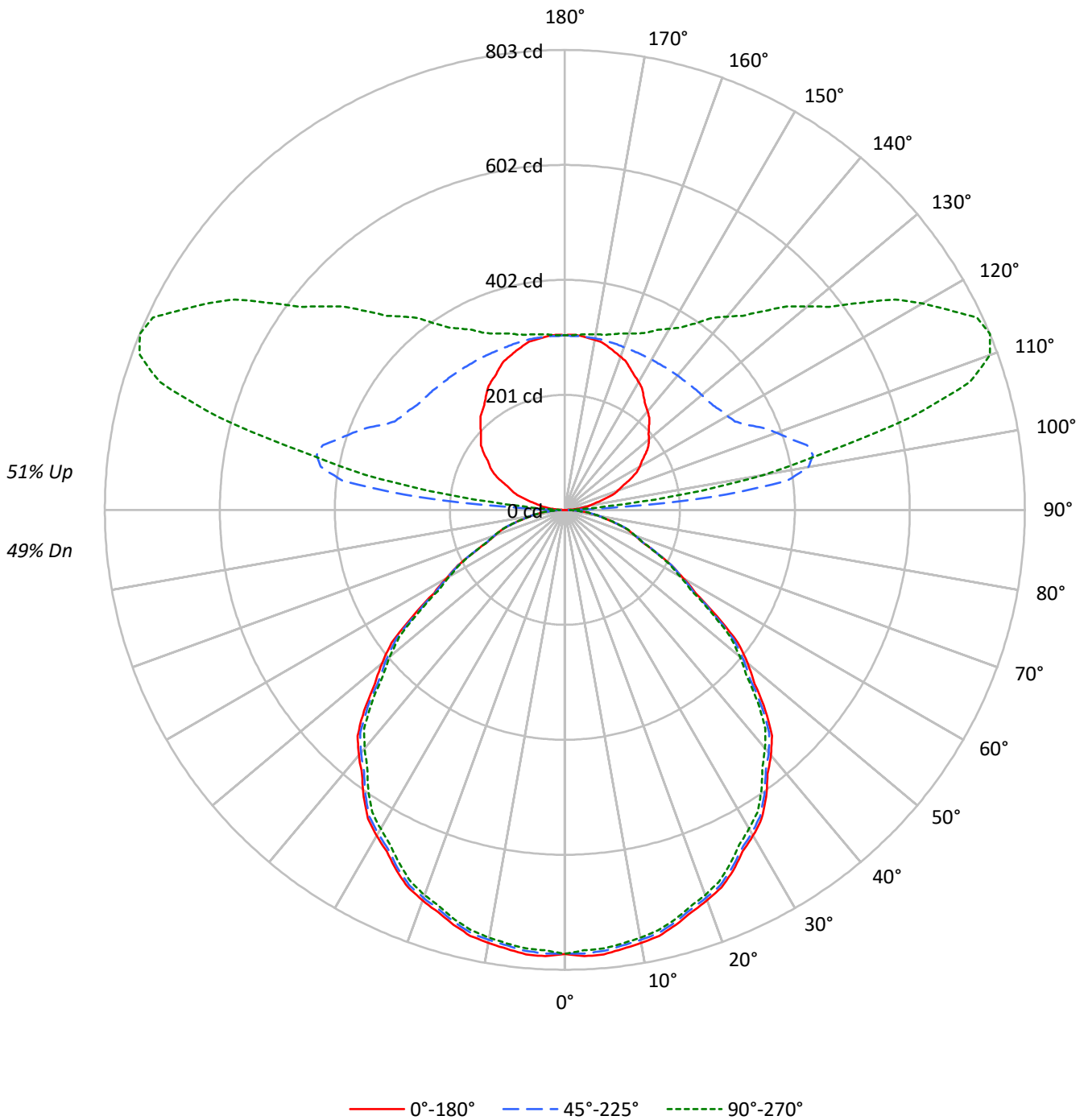
Lumens per Lamp: N/A
Luminaire Lumens: 3930.9 lumens
Efficiency: N/A
Efficacy: 137.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 28.5
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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	49
1	98	94	90	86	90	87	83	80	73	71	69	61	59	58	49	48	47	42
2	89	82	76	71	82	76	71	66	64	61	57	54	51	49	44	42	40	36
3	82	72	65	60	75	67	61	56	57	52	48	48	44	41	39	37	35	31
4	75	64	56	51	69	60	53	48	51	46	42	43	39	36	35	32	30	26
5	69	57	49	43	63	53	46	41	46	40	36	38	34	31	32	29	26	23
6	63	51	43	38	58	48	41	36	41	36	31	35	31	27	29	26	23	20
7	59	47	39	33	54	43	36	31	37	32	28	32	27	24	26	23	21	18
8	54	42	35	29	50	39	33	28	34	29	25	29	25	22	24	21	19	16
9	51	39	31	26	47	36	29	25	31	26	22	27	22	19	22	19	17	15
10	47	35	28	23	44	33	27	22	29	24	20	25	20	18	21	18	15	13

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	1.9
10°-20°	209.7	5.3
20°-30°	316.3	8.0
30°-40°	376.9	9.6
40°-50°	371.6	9.5
50°-60°	284.0	7.2
60°-70°	175.8	4.5
70°-80°	99.8	2.5
80°-90°	31.5	0.8
90°-100°	146.4	3.7
100°-110°	397.8	10.1
110°-120°	409.0	10.4
120°-130°	327.0	8.3
130°-140°	257.0	6.5
140°-150°	197.0	5.0
150°-160°	141.7	3.6
160°-170°	86.7	2.2
170°-180°	29.2	0.7
0°-30°	599.4	15.2
0°-40°	976.3	24.8
0°-60°	1631.9	41.5
0°-90°	1939.0	49.3
90°-120°	953.3	24.3
90°-150°	1734.4	44.1
90°-180°	1992.0	50.7
0°-180°	3930.9	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°	1	4	7	9	9	2
95°	22	80	255	111	75	23
105°	71	110	438	666	627	75
115°	126	152	350	697	794	124
125°	173	197	317	534	630	154
135°	208	231	308	435	490	161
145°	240	258	304	370	397	151
155°	272	281	302	332	341	125
165°	294	298	303	316	317	83
175°	305	306	304	308	307	29
180°	305	305	305	305	305	



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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°	7.1	9.8	12.1	12.4	11.9
90°	1.0	3.9	6.9	8.8	8.8
92.5°	8.8	40.1	69.6	29.9	25.3
95°	21.6	80.1	255.0	111.0	74.6
97.5°	35.7	88.5	391.0	304.2	213.7
100°	45.1	94.0	432.6	438.5	354.1
102.5°	54.5	99.6	443.6	542.3	467.9
105°	70.6	110.0	437.5	666.1	626.8
107.5°	87.3	122.0	412.2	730.1	741.0
110°	99.1	130.7	393.4	742.7	789.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	109.3	139.4	374.5	732.2	803.0
115°	125.6	152.4	350.2	696.7	793.6
117.5°	140.9	166.6	334.7	646.4	755.5
120°	151.1	176.0	327.6	612.6	721.0
122.5°	159.7	184.6	322.9	578.8	683.3
125°	172.6	196.6	316.8	533.9	629.8
127.5°	184.2	208.0	313.5	499.8	582.1
130°	191.3	214.3	311.9	478.4	552.3
132.5°	198.3	221.4	310.4	460.2	525.6
135°	208.0	231.0	308.0	434.8	490.5
137.5°	218.4	239.3	306.8	412.5	459.3
140°	224.6	244.8	306.1	398.2	440.4
142.5°	230.9	249.5	305.3	387.1	422.4
145°	240.3	257.6	304.1	369.5	397.3
147.5°	250.9	265.7	303.1	355.6	377.5
150°	258.0	270.5	303.1	347.6	364.9
152.5°	263.5	274.4	302.3	340.5	354.7
155°	271.7	281.3	302.1	331.8	341.4
157.5°	279.8	287.2	302.1	325.8	333.1
160°	284.5	291.2	302.1	321.9	327.6
162.5°	289.2	294.4	302.9	318.7	322.9
165°	294.3	298.1	303.1	315.9	316.8
167.5°	299.6	301.5	304.1	312.5	313.3
170°	301.2	303.1	304.1	311.0	311.0
172.5°	302.7	303.9	304.1	309.4	309.4
175°	305.1	306.0	304.1	308.0	307.0
177.5°	305.9	305.9	303.5	306.6	305.1
180°	305.1	305.1	305.1	305.1	305.1

(END OF REPORT)