

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: P563854

Luminaire Tested: **SQ4-PR1-025U-050D-835-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563854
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-PR1-025U-050D-835-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

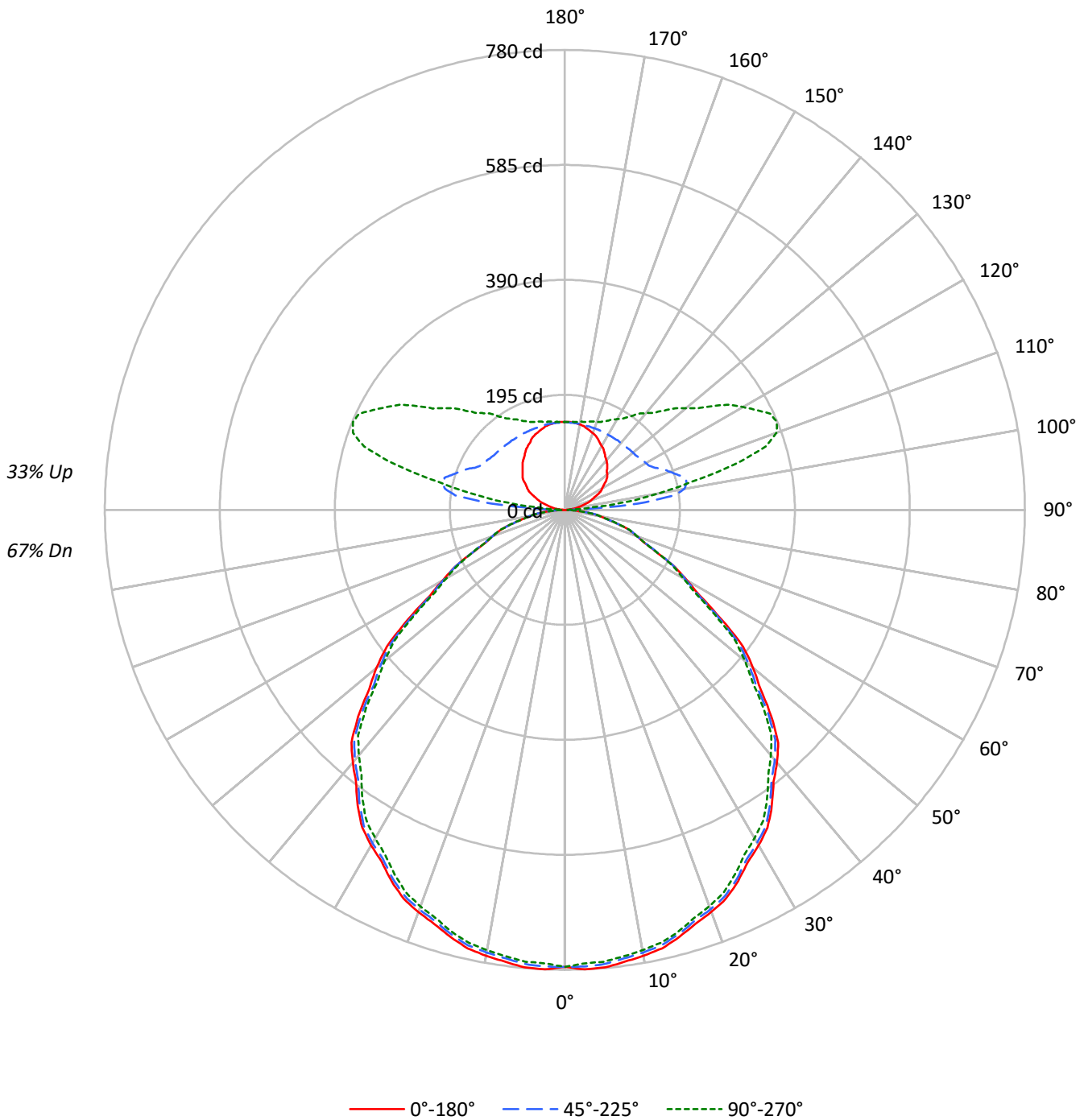
Lumens per Lamp: N/A
Luminaire Lumens: 2904.5 lumens
Efficiency: N/A
Efficacy: 131.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 22.1
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	111	111	111	111	105	105	105	105	93	93	93	82	82	82	72	72	72	67
1	102	98	94	90	96	92	89	86	82	79	77	72	71	69	64	62	61	57
2	93	86	80	74	88	81	76	71	72	68	64	64	61	58	57	54	52	48
3	85	76	68	63	80	72	65	60	64	59	55	57	53	50	51	47	45	41
4	78	67	59	53	73	64	57	51	57	51	47	51	47	43	45	42	39	36
5	72	60	52	46	68	57	50	44	51	45	41	46	41	37	41	37	34	31
6	66	54	46	40	62	52	44	39	46	40	36	42	37	33	37	33	30	28
7	62	49	41	35	58	47	39	34	42	36	32	38	33	29	34	30	27	24
8	57	45	37	31	54	43	35	30	39	33	28	35	30	26	31	27	24	22
9	53	41	33	28	50	39	32	27	35	30	25	32	27	24	29	25	22	20
10	50	38	30	25	47	36	29	25	33	27	23	30	25	21	27	23	20	18

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	2.5
10°-20°	209.7	7.2
20°-30°	316.3	10.9
30°-40°	376.9	13.0
40°-50°	371.6	12.8
50°-60°	284.0	9.8
60°-70°	175.8	6.1
70°-80°	99.8	3.4
80°-90°	31.2	1.1
90°-100°	72.6	2.5
100°-110°	190.9	6.6
110°-120°	198.0	6.8
120°-130°	158.8	5.5
130°-140°	124.6	4.3
140°-150°	95.6	3.3
150°-160°	68.9	2.4
160°-170°	42.1	1.5
170°-180°	14.2	0.5
0°-30°	599.4	20.6
0°-40°	976.3	33.6
0°-60°	1631.9	56.2
0°-90°	1938.6	66.7
90°-120°	461.6	15.9
90°-150°	840.6	28.9
90°-180°	966.0	33.3
0°-180°	2904.5	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	3	8	4	4	2
95°	10	38	125	64	44	11
105°	34	52	211	320	299	36
115°	61	74	169	337	385	60
125°	85	95	154	260	307	75
135°	101	112	149	210	238	78
145°	118	125	147	179	193	74
155°	133	136	147	162	166	61
165°	143	145	147	153	155	40
175°	149	149	148	150	150	14
180°	149	149	149	149	149	



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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	9.6	12.2	11.4	10.9
90°	1.0	2.8	7.6	3.8	3.8
92.5°	4.0	19.3	42.8	19.0	12.2
95°	9.6	37.6	125.1	64.5	43.9
97.5°	16.6	41.3	187.2	148.9	109.7
100°	22.0	44.4	206.3	209.1	162.4
102.5°	26.6	47.5	211.7	260.5	220.5
105°	34.4	52.1	211.1	320.5	299.0
107.5°	42.4	58.9	199.1	351.7	356.9
110°	47.8	62.7	189.1	359.7	382.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	53.1	67.3	180.0	354.6	389.0
115°	61.1	74.2	169.1	337.3	385.0
117.5°	69.0	80.9	161.6	313.4	366.3
120°	73.6	84.8	158.6	297.3	348.7
122.5°	78.1	89.4	156.3	281.2	331.9
125°	85.0	95.3	153.8	259.9	306.6
127.5°	90.6	101.0	151.7	242.8	282.2
130°	93.6	104.8	150.9	232.0	268.4
132.5°	96.7	107.9	150.2	222.8	255.4
135°	101.3	111.5	149.0	209.8	237.9
137.5°	106.0	116.1	148.8	200.2	223.2
140°	109.9	119.2	148.1	192.5	214.0
142.5°	112.9	121.5	148.1	187.1	205.6
145°	117.5	125.0	147.1	179.0	193.0
147.5°	122.1	129.4	147.1	172.2	183.8
150°	125.1	131.7	147.1	168.3	177.7
152.5°	128.2	133.2	147.1	165.2	172.3
155°	132.8	136.5	147.1	161.5	166.2
157.5°	136.2	139.8	147.1	158.3	161.6
160°	138.5	141.3	147.1	156.7	158.6
162.5°	140.8	142.9	147.1	155.2	157.0
165°	143.3	145.2	147.1	152.9	154.8
167.5°	145.6	146.5	148.1	151.9	152.7
170°	147.1	148.0	148.1	151.9	151.9
172.5°	147.9	148.1	148.1	151.1	150.4
175°	149.0	149.0	148.1	150.0	150.0
177.5°	149.0	149.0	148.3	149.8	149.0
180°	149.0	149.0	149.0	149.0	149.0

(END OF REPORT)