

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: P563858

Luminaire Tested: **SQ4-PR1-025U-050D-840-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563858
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-840-1D-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: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

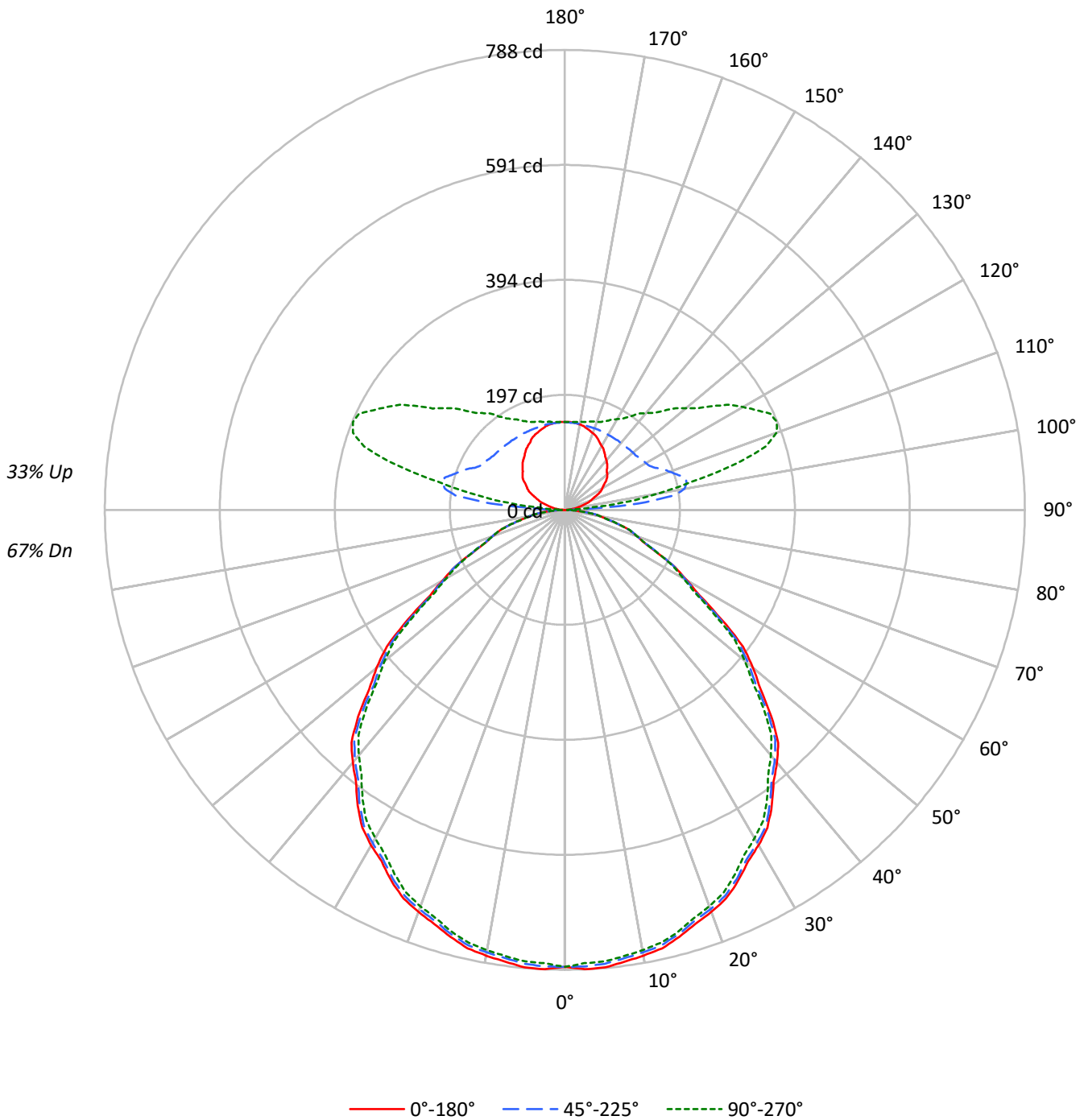
Lumens per Lamp: N/A
Luminaire Lumens: 2933.8 lumens
Efficiency: N/A
Efficacy: 132.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

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°	7224	7224	7224
5°	7289	7232	7195
10°	7265	7215	7177
15°	7233	7189	7150
20°	7198	7151	7098
25°	7146	7099	7016
30°	7070	7020	6918
35°	6965	6904	6805
40°	6806	6734	6611
45°	6529	6414	6283
50°	6040	5895	5779
55°	5273	5152	5044
60°	4443	4405	4318
65°	3842	3858	3827
70°	3528	3547	3547
75°	3390	3390	3415
80°	3188	3225	3188
85°	2572	2858	2858



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.0	2.5
10°-20°	211.8	7.2
20°-30°	319.5	10.9
30°-40°	380.7	13.0
40°-50°	375.3	12.8
50°-60°	286.9	9.8
60°-70°	177.5	6.1
70°-80°	100.8	3.4
80°-90°	31.5	1.1
90°-100°	73.4	2.5
100°-110°	192.9	6.6
110°-120°	200.0	6.8
120°-130°	160.4	5.5
130°-140°	125.9	4.3
140°-150°	96.6	3.3
150°-160°	69.6	2.4
160°-170°	42.6	1.5
170°-180°	14.4	0.5
0°-30°	605.4	20.6
0°-40°	986.1	33.6
0°-60°	1648.3	56.2
0°-90°	1958.1	66.7
90°-120°	466.2	15.9
90°-150°	849.1	28.9
90°-180°	976.0	33.3
0°-180°	2933.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	783	783	783	783	783	
5°	787	778	781	778	777	75
15°	757	749	753	750	749	214
25°	702	694	697	690	689	323
35°	618	611	613	605	604	386
45°	500	494	492	483	482	383
55°	328	322	320	315	314	294
65°	176	175	177	175	175	178
75°	95	95	95	96	96	100
85°	24	26	27	27	27	28
90°	1	3	8	4	4	2
95°	10	38	126	65	44	11
105°	35	53	213	324	302	37
115°	62	75	171	341	389	61
125°	86	96	155	263	310	76
135°	102	113	150	212	240	79
145°	119	126	149	181	195	74
155°	134	138	149	163	168	62
165°	145	147	149	154	156	41
175°	150	150	150	152	152	14
180°	150	150	150	150	150	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	783.0	783.0	783.0	783.0	783.0
2.5°	787.8	781.0	783.0	781.3	777.6
5°	787.0	778.4	780.9	778.2	776.9
7.5°	780.9	772.5	775.0	772.3	771.5
10°	775.5	767.6	770.1	767.4	766.1
12.5°	769.6	761.2	764.2	760.9	759.6
15°	757.3	749.4	752.6	749.9	748.6
17.5°	743.8	735.4	738.6	735.4	733.7
20°	733.1	725.1	728.3	723.6	722.9
22.5°	721.2	713.3	716.5	710.1	710.0
25°	702.0	693.5	697.3	689.9	689.2
27.5°	679.2	671.3	674.5	666.9	666.2
30°	663.6	655.7	658.9	650.7	649.4
32.5°	645.8	638.4	641.1	633.0	632.2
35°	618.4	611.2	613.0	604.9	604.2
37.5°	587.3	580.7	581.7	572.8	572.1
40°	565.1	558.5	559.1	549.6	548.9
42.5°	540.9	534.3	533.7	524.3	523.6
45°	500.4	493.8	491.6	482.8	481.5
47.5°	454.3	447.7	443.6	436.4	435.5
50°	420.8	414.2	410.7	404.6	402.6
52.5°	384.7	378.1	375.1	369.5	367.5
55°	327.8	322.5	320.3	314.9	313.6
57.5°	273.7	270.1	269.5	264.2	263.7
60°	240.8	238.8	238.7	234.0	234.0
62.5°	212.7	211.2	212.3	209.2	208.7
65°	176.0	174.7	176.7	175.3	175.3
67.5°	147.0	147.0	148.2	147.7	147.7
70°	130.8	130.8	131.5	131.5	131.5
72.5°	116.3	115.7	117.5	117.5	116.9
75°	95.1	95.1	95.1	95.8	95.8
77.5°	74.0	74.2	74.7	74.6	74.0
80°	60.0	60.7	60.7	60.0	60.0
82.5°	46.0	46.7	46.7	46.5	46.0
85°	24.3	25.6	27.0	27.0	27.0
87.5°	7.2	9.7	12.3	11.6	11.0
90°	1.0	2.9	7.7	3.9	3.9
92.5°	4.1	19.5	43.2	19.1	12.4
95°	9.6	38.0	126.4	65.1	44.4
97.5°	16.8	41.7	189.1	150.4	110.8
100°	22.2	44.8	208.4	211.2	164.0
102.5°	26.8	48.0	213.8	263.1	222.7
105°	34.7	52.7	213.2	323.7	302.0
107.5°	42.8	59.4	201.1	355.2	360.5
110°	48.2	63.3	191.1	363.3	386.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	53.6	68.0	181.8	358.2	392.9
115°	61.8	75.0	170.8	340.7	388.9
117.5°	69.7	81.7	163.3	316.5	369.9
120°	74.3	85.6	160.2	300.3	352.2
122.5°	78.9	90.3	157.9	284.1	335.2
125°	85.9	96.3	155.3	262.6	309.7
127.5°	91.5	102.0	153.2	245.2	285.0
130°	94.6	105.9	152.5	234.3	271.1
132.5°	97.6	109.0	151.7	225.0	258.0
135°	102.3	112.7	150.5	212.0	240.3
137.5°	107.1	117.3	150.3	202.2	225.4
140°	111.0	120.4	149.6	194.4	216.1
142.5°	114.1	122.7	149.6	189.0	207.6
145°	118.7	126.2	148.6	180.8	194.9
147.5°	123.3	130.7	148.6	173.9	185.6
150°	126.4	133.0	148.6	170.0	179.5
152.5°	129.5	134.6	148.6	166.9	174.1
155°	134.1	137.9	148.6	163.2	167.9
157.5°	137.6	141.2	148.6	159.9	163.3
160°	139.9	142.7	148.6	158.3	160.2
162.5°	142.2	144.3	148.6	156.7	158.6
165°	144.7	146.6	148.6	154.4	156.3
167.5°	147.1	148.0	149.6	153.4	154.2
170°	148.6	149.5	149.6	153.4	153.4
172.5°	149.4	149.6	149.6	152.6	151.9
175°	150.5	150.5	149.6	151.5	151.5
177.5°	150.5	150.5	149.8	151.3	150.5
180°	150.5	150.5	150.5	150.5	150.5

(END OF REPORT)