

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: P562354

Luminaire Tested: **SQ4-PW1-100U-050D-92765-1D-UNV-STD-W-4 (5000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562354
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2106-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PW1-100U-050D-92765-1D-UNV-STD-W-4 (5000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6652.6 lumens
Efficiency: N/A
Efficacy: 125.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

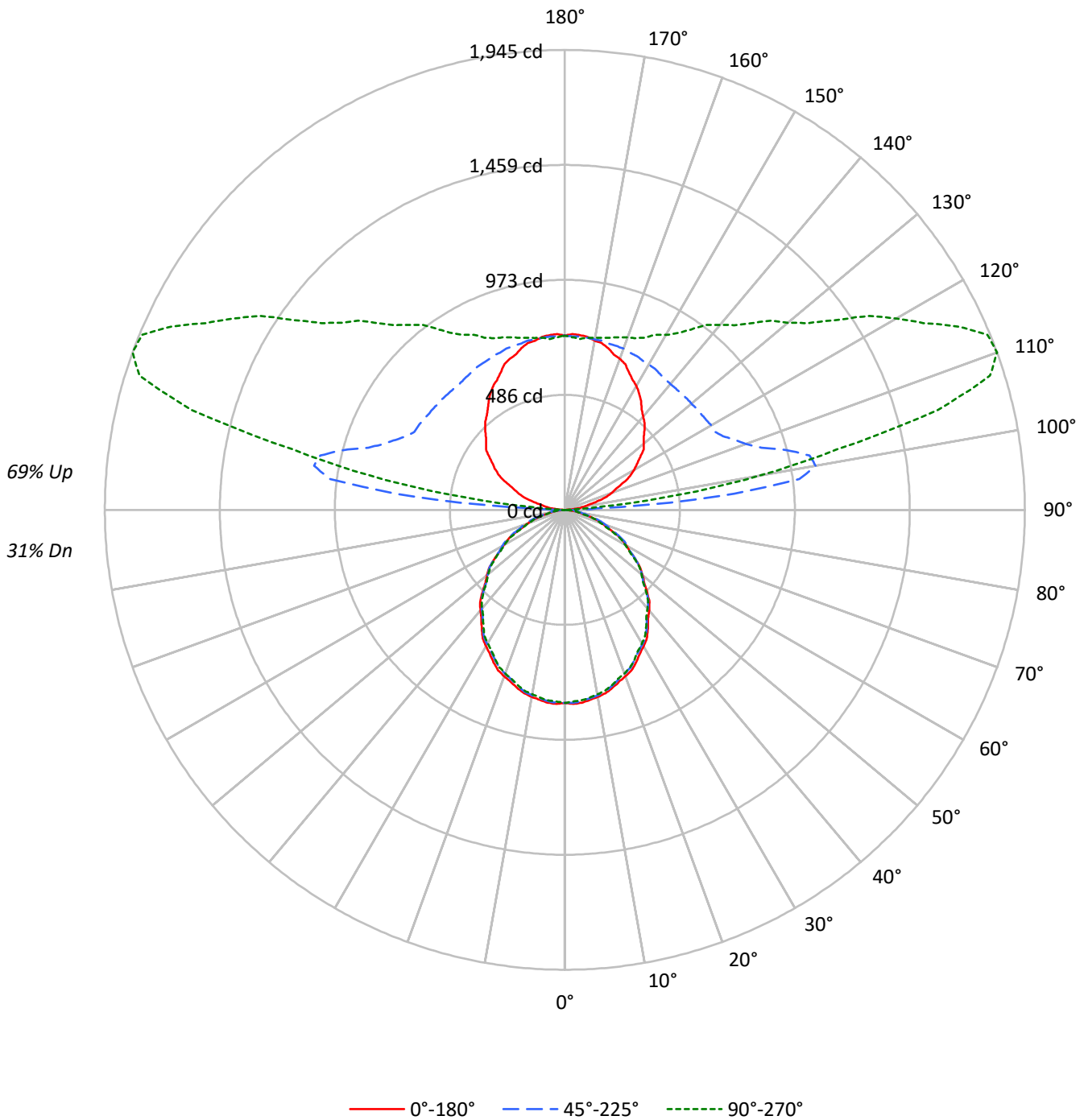
Input Watts (W): 53
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	92	92	92	92	73	73	73	55	55	55	39	39	39	31
1	94	89	86	82	84	81	77	75	64	62	60	49	47	46	34	34	33	26
2	85	78	72	67	76	70	65	61	56	53	50	43	40	38	30	29	28	22
3	78	69	62	56	70	62	56	51	49	45	42	38	35	33	27	25	24	19
4	71	61	53	47	64	55	48	43	44	39	35	34	30	28	24	22	20	16
5	65	54	46	40	58	49	42	37	39	34	30	30	27	24	22	19	18	14
6	60	48	40	35	54	44	37	32	35	30	26	27	24	21	20	17	16	12
7	55	43	36	30	50	39	33	28	32	27	23	25	21	18	18	16	14	11
8	51	39	32	27	46	36	29	25	29	24	20	22	19	16	16	14	12	10
9	48	36	29	24	43	33	26	22	26	22	18	21	17	15	15	13	11	9
10	44	33	26	21	40	30	24	19	24	20	16	19	16	13	14	12	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7536	7536	7536
5°	7585	7525	7492
10°	7525	7464	7424
15°	7445	7362	7335
20°	7356	7243	7228
25°	7253	7121	7100
30°	7099	6993	6946
35°	6899	6801	6760
40°	6683	6578	6553
45°	6423	6339	6310
50°	6156	6105	6064
55°	5870	5870	5776
60°	5512	5617	5418
65°	5043	5294	4919
70°	4446	4872	4330
75°	3796	4360	3693
80°	2943	3671	2981
85°	1905	2816	2509



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.9	1.2
10°-20°	217.2	3.3
20°-30°	322.1	4.8
30°-40°	376.9	5.7
40°-50°	375.2	5.6
50°-60°	324.0	4.9
60°-70°	233.2	3.5
70°-80°	122.3	1.8
80°-90°	30.3	0.5
90°-100°	335.6	5.0
100°-110°	954.8	14.4
110°-120°	914.8	13.8
120°-130°	724.0	10.9
130°-140°	581.1	8.7
140°-150°	455.0	6.8
150°-160°	332.9	5.0
160°-170°	206.2	3.1
170°-180°	70.0	1.1
0°-30°	616.2	9.3
0°-40°	993.1	14.9
0°-60°	1692.4	25.4
0°-90°	2078.3	31.2
90°-120°	2205.2	33.1
90°-150°	3965.3	59.6
90°-180°	4574.0	68.8
0°-180°	6652.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	817	817	817	817	817	
5°	819	810	812	810	809	78
15°	779	770	771	769	768	220
25°	712	700	700	695	697	328
35°	612	604	604	598	600	383
45°	492	488	486	484	484	380
55°	365	364	365	360	359	326
65°	231	238	242	233	225	229
75°	106	116	122	114	104	114
85°	18	24	27	25	24	24
90°	0	0	0	0	0	2
95°	36	144	650	225	139	42
105°	148	225	973	1719	1634	157
115°	276	333	738	1563	1835	272
125°	389	432	704	1169	1397	348
135°	476	516	696	987	1116	367
145°	561	590	701	854	931	351
155°	641	656	718	772	804	296
165°	708	711	727	742	753	199
175°	742	738	735	731	725	70
180°	736	736	736	736	736	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	816.8	816.8	816.8	816.8	816.8
2.5°	821.5	814.7	816.8	815.0	811.1
5°	819.0	809.9	812.5	810.3	808.9
7.5°	810.7	802.2	804.2	801.9	801.0
10°	803.2	794.7	796.7	793.8	792.4
12.5°	794.5	785.5	787.5	784.6	783.7
15°	779.4	769.6	770.8	769.3	767.9
17.5°	761.9	751.9	752.1	749.8	749.5
20°	749.2	738.6	737.7	734.8	736.2
22.5°	735.4	724.3	723.3	719.3	721.3
25°	712.5	700.5	699.5	695.3	697.4
27.5°	686.0	674.2	674.2	668.2	670.5
30°	666.4	655.2	656.4	649.2	652.0
32.5°	645.7	635.6	636.2	629.1	631.9
35°	612.5	604.0	603.8	598.1	600.2
37.5°	578.5	571.0	569.9	566.6	567.1
40°	554.9	548.5	546.2	544.1	544.1
42.5°	530.1	524.4	522.1	520.5	519.9
45°	492.3	488.0	485.8	484.3	483.6
47.5°	454.8	450.9	448.9	447.9	447.2
50°	428.9	426.1	425.3	423.2	422.5
52.5°	403.0	401.3	400.6	397.8	397.1
55°	364.9	364.2	364.9	359.8	359.1
57.5°	325.2	326.3	328.6	321.8	320.1
60°	298.7	301.5	304.4	296.4	293.6
62.5°	271.6	276.1	280.2	271.1	267.1
65°	231.0	238.1	242.5	233.0	225.3
67.5°	191.9	200.6	206.0	195.7	187.0
70°	164.8	174.7	180.6	170.3	160.5
72.5°	141.2	152.2	157.0	147.3	137.5
75°	106.5	116.4	122.3	114.2	103.6
77.5°	75.6	84.9	89.8	82.7	74.0
80°	55.4	65.3	69.1	63.2	56.1
82.5°	39.3	47.5	50.1	46.5	41.7
85°	18.0	23.6	26.6	25.2	23.7
87.5°	4.6	8.5	10.9	11.0	11.5
90°	0.0	0.0	0.0	0.0	0.0
92.5°	11.2	59.4	137.8	40.1	30.2
95°	36.4	144.5	649.6	224.8	138.6
97.5°	66.9	169.3	1000.5	715.9	490.6
100°	88.2	184.0	1076.6	1090.5	840.0
102.5°	111.7	199.9	1059.8	1395.9	1177.1
105°	148.4	225.1	973.0	1718.7	1633.8
107.5°	185.6	254.4	871.7	1809.7	1885.3
110°	211.4	275.7	813.4	1774.9	1944.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	236.0	297.1	774.2	1692.5	1934.6
115°	275.8	333.3	737.8	1563.0	1835.4
117.5°	310.8	364.7	716.3	1421.4	1710.0
120°	338.8	384.0	714.0	1340.5	1617.0
122.5°	361.2	406.4	708.4	1269.5	1526.3
125°	389.2	431.6	704.2	1168.6	1397.2
127.5°	419.7	459.4	702.0	1108.3	1296.7
130°	435.4	475.1	698.6	1066.4	1230.6
132.5°	452.2	490.8	698.6	1033.6	1184.7
135°	476.0	515.7	695.8	987.1	1115.8
137.5°	498.4	537.0	695.5	947.8	1059.0
140°	515.2	554.9	694.4	915.2	1022.0
142.5°	534.3	567.4	697.8	889.2	985.1
145°	561.4	590.2	701.4	854.4	931.0
147.5°	584.7	612.6	707.6	819.1	885.4
150°	604.8	624.0	709.8	807.5	854.0
152.5°	620.5	640.8	712.1	791.7	835.0
155°	641.2	656.3	718.2	772.1	803.6
157.5°	667.0	676.0	719.6	763.2	785.7
160°	680.4	687.3	725.2	756.5	775.6
162.5°	688.3	696.2	726.3	750.8	765.5
165°	708.4	711.2	726.6	742.3	753.2
167.5°	722.1	719.7	733.1	740.2	744.5
170°	726.6	725.2	730.8	732.3	737.8
172.5°	736.7	732.0	734.2	730.1	734.5
175°	742.0	737.9	735.0	730.7	725.2
177.5°	744.3	737.7	734.2	729.7	730.8
180°	736.4	736.4	736.4	736.4	736.4

(END OF REPORT)