

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: P564942

Luminaire Tested: **SQ4-PW1-100U-075D-930-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564942
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, 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-075D-930-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

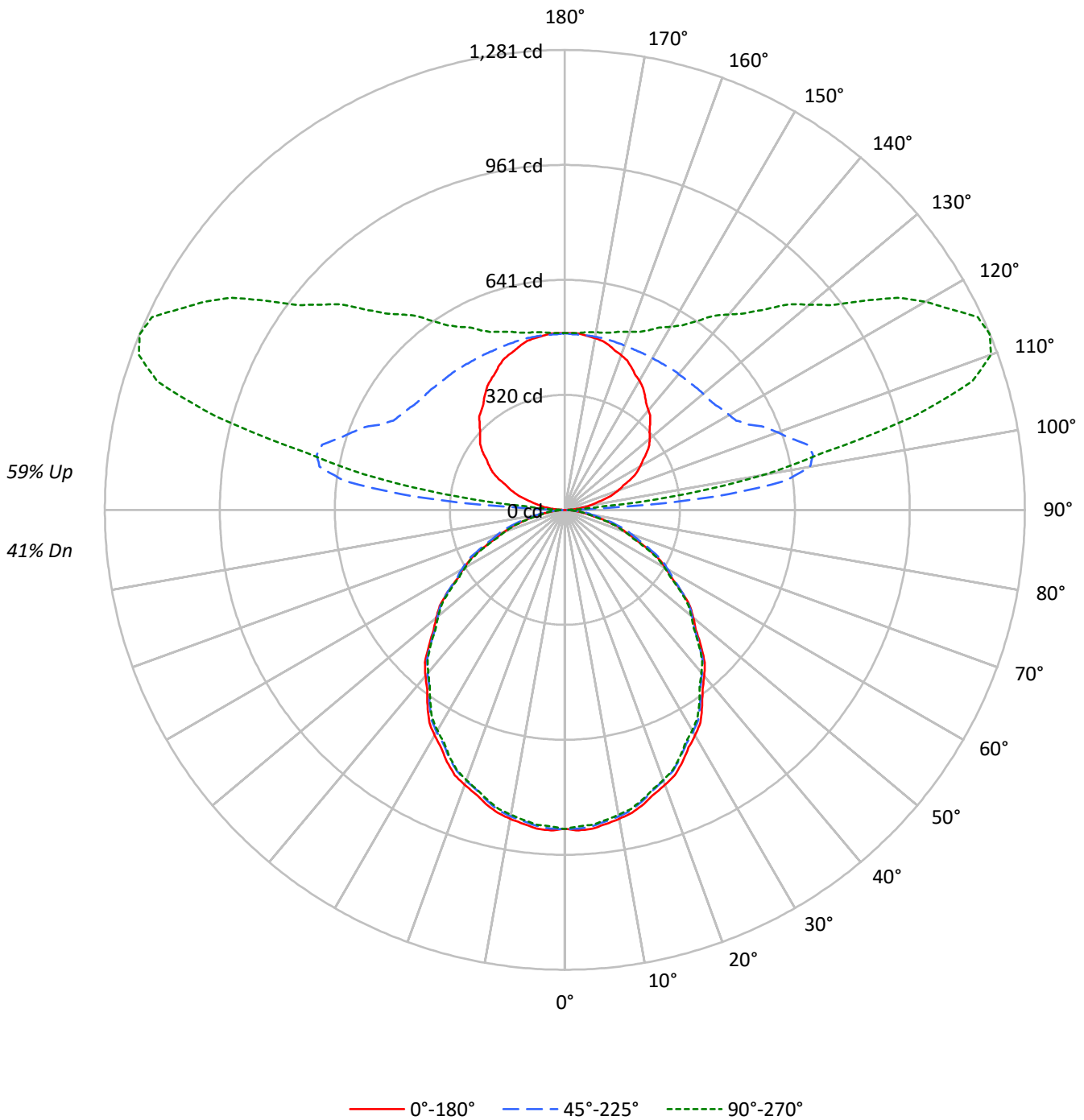
Lumens per Lamp: N/A
Luminaire Lumens: 5458.3 lumens
Efficiency: N/A
Efficacy: 111.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 49.1
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	105	105	105	105	96	96	96	96	79	79	79	63	63	63	48	48	48	41
1	96	92	88	85	87	84	81	78	69	67	65	55	54	52	43	42	41	35
2	87	80	74	69	79	73	68	64	60	57	54	49	46	44	38	36	35	30
3	80	70	63	58	72	65	58	53	53	49	45	43	40	37	33	31	29	25
4	73	62	55	49	66	57	50	45	47	42	38	38	35	32	30	27	25	22
5	67	55	48	42	61	51	44	39	42	37	33	34	31	28	27	24	22	19
6	62	50	42	36	56	46	39	34	38	33	29	31	27	24	24	22	19	16
7	57	45	37	32	52	41	34	29	35	29	25	28	24	21	22	19	17	15
8	53	41	33	28	48	37	31	26	31	26	22	26	22	19	20	18	15	13
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	19	16	14	12
10	46	34	27	22	42	31	25	21	26	21	18	22	18	15	18	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8200	8200	8200
5°	8253	8188	8152
10°	8187	8122	8078
15°	8101	8011	7980
20°	8004	7880	7865
25°	7892	7748	7725
30°	7725	7609	7559
35°	7506	7400	7356
40°	7271	7159	7130
45°	6988	6897	6866
50°	6699	6643	6598
55°	6386	6386	6286
60°	5997	6111	5896
65°	5488	5761	5351
70°	4837	5303	4710
75°	4132	4745	4021
80°	3204	3995	3246
85°	2075	3070	2731



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.7	1.5
10°-20°	236.3	4.3
20°-30°	350.5	6.4
30°-40°	410.1	7.5
40°-50°	408.3	7.5
50°-60°	352.6	6.5
60°-70°	253.8	4.6
70°-80°	133.1	2.4
80°-90°	34.0	0.6
90°-100°	230.4	4.2
100°-110°	635.9	11.7
110°-120°	655.9	12.0
120°-130°	527.0	9.7
130°-140°	414.2	7.6
140°-150°	317.7	5.8
150°-160°	228.3	4.2
160°-170°	139.6	2.6
170°-180°	47.1	0.9
0°-30°	670.5	12.3
0°-40°	1080.6	19.8
0°-60°	1841.4	33.7
0°-90°	2262.3	41.4
90°-120°	1522.1	27.9
90°-150°	2781.0	50.9
90°-180°	3196.0	58.6
0°-180°	5458.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	889	889	889	889	889	
5°	891	881	884	882	880	84
15°	848	837	839	837	836	239
25°	775	762	761	756	759	356
35°	666	657	657	651	653	417
45°	536	531	529	527	526	413
55°	397	396	397	392	391	354
65°	251	259	264	254	245	249
75°	116	127	133	124	113	124
85°	20	26	29	27	26	26
90°	2	3	6	7	8	3
95°	34	125	418	172	112	36
105°	113	175	700	1068	1006	121
115°	203	245	564	1116	1269	200
125°	279	317	511	864	1014	248
135°	335	371	497	700	789	259
145°	389	416	490	596	641	243
155°	438	453	486	535	552	202
165°	475	481	489	508	512	134
175°	492	493	490	497	495	47
180°	492	492	492	492	492	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	888.8	888.8	888.8	888.8	888.8
2.5°	893.8	886.4	888.8	886.8	882.5
5°	891.1	881.2	884.1	881.7	880.2
7.5°	882.1	872.9	875.0	872.5	871.6
10°	873.9	864.7	866.9	863.7	862.2
12.5°	864.5	854.7	856.8	853.7	852.8
15°	848.1	837.3	838.7	837.1	835.5
17.5°	829.0	818.1	818.3	815.8	815.5
20°	815.2	803.7	802.6	799.6	801.1
22.5°	800.1	788.0	787.0	782.7	784.8
25°	775.2	762.2	761.1	756.5	758.8
27.5°	746.4	733.6	733.6	727.1	729.5
30°	725.1	712.9	714.2	706.4	709.5
32.5°	702.6	691.5	692.2	684.5	687.5
35°	666.4	657.2	657.0	650.8	653.1
37.5°	629.4	621.3	620.0	616.4	617.1
40°	603.7	596.9	594.4	592.0	592.0
42.5°	576.8	570.5	568.0	566.3	565.7
45°	535.6	531.0	528.6	527.0	526.2
47.5°	494.9	490.6	488.5	487.4	486.6
50°	466.7	463.6	462.8	460.4	459.7
52.5°	438.5	436.7	435.9	432.9	432.1
55°	397.0	396.3	397.0	391.5	390.8
57.5°	353.8	355.0	357.6	350.1	348.3
60°	325.0	328.0	331.2	322.6	319.5
62.5°	295.5	300.4	304.9	295.0	290.7
65°	251.4	259.0	263.9	253.5	245.1
67.5°	208.8	218.3	224.1	212.9	203.4
70°	179.3	190.0	196.6	185.3	174.6
72.5°	153.6	165.6	170.9	160.3	149.6
75°	115.9	126.6	133.1	124.2	112.8
77.5°	82.2	92.3	97.7	90.0	80.5
80°	60.3	71.0	75.2	68.7	61.1
82.5°	42.8	51.6	54.5	50.6	45.4
85°	19.6	25.7	29.0	27.4	25.8
87.5°	5.3	9.9	13.2	13.3	14.1
90°	1.6	3.1	6.3	7.1	7.9
92.5°	14.2	58.8	105.1	38.4	29.9
95°	33.8	124.6	417.9	171.8	111.8
97.5°	56.0	139.6	619.1	476.6	345.2
100°	72.4	148.6	693.4	698.3	567.4
102.5°	88.1	158.8	707.8	862.7	738.7
105°	113.3	174.9	699.7	1068.1	1005.8
107.5°	140.1	194.9	660.6	1167.2	1190.0
110°	159.0	208.2	630.4	1188.5	1262.4



TEST NUMBER: P564942

CATALOG NUMBER: SQ4-PW1-100U-075D-930-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	176.0	223.4	602.1	1171.7	1280.6
115°	203.0	245.4	563.5	1115.5	1268.7
117.5°	226.7	268.8	538.2	1036.5	1210.7
120°	242.4	284.0	528.1	983.0	1158.5
122.5°	257.5	297.2	519.9	933.1	1099.3
125°	278.6	317.1	510.8	864.4	1014.5
127.5°	296.5	335.0	505.4	806.3	935.8
130°	308.5	347.0	502.9	770.8	888.5
132.5°	319.8	356.5	500.4	741.0	847.6
135°	335.3	371.4	496.6	700.1	789.4
137.5°	352.6	385.5	494.7	665.8	742.0
140°	362.0	394.3	493.5	642.9	709.9
142.5°	372.7	402.6	492.2	622.6	681.6
145°	388.8	415.7	490.3	596.0	641.4
147.5°	404.2	427.8	488.6	573.6	608.8
150°	415.5	434.8	487.9	560.2	588.7
152.5°	424.4	442.4	487.3	548.8	572.3
155°	438.4	453.0	486.4	534.8	551.7
157.5°	451.3	462.5	486.5	524.6	536.1
160°	458.8	468.8	487.2	518.8	527.3
162.5°	465.1	473.9	487.8	513.8	520.4
165°	474.6	480.7	488.7	507.7	511.6
167.5°	481.8	485.5	489.5	504.0	505.3
170°	485.6	488.7	489.5	502.1	502.1
172.5°	488.7	490.6	489.5	499.6	499.0
175°	491.9	492.7	489.5	496.6	495.0
177.5°	493.1	492.5	489.4	493.7	492.5
180°	491.9	491.9	491.9	491.9	491.9

(END OF REPORT)