

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: P564270

Luminaire Tested: **SQ4-PR1-100U-075D-930-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564270
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, 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-PR1-100U-075D-930-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

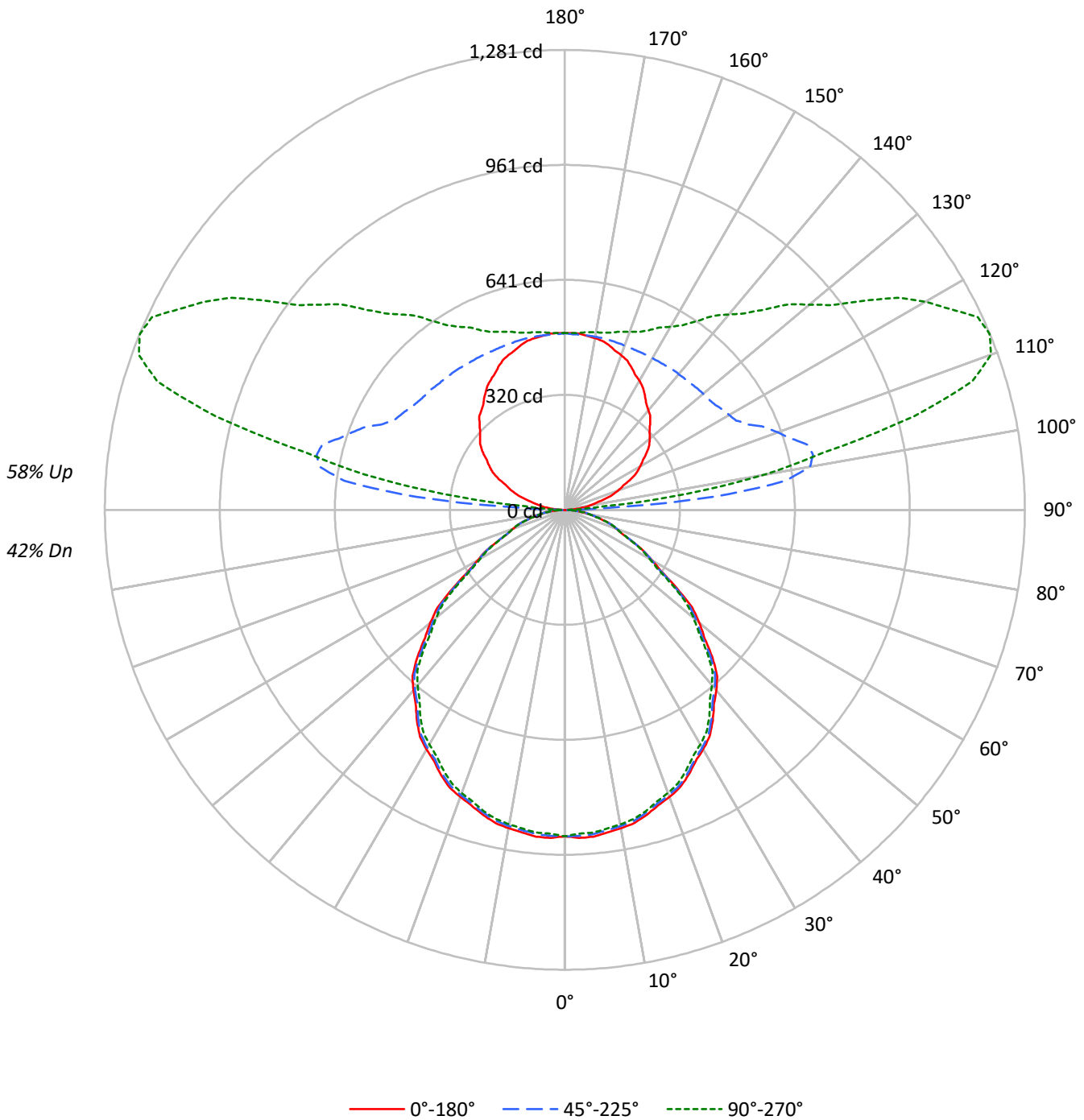
Lumens per Lamp: N/A
Luminaire Lumens: 5469.8 lumens
Efficiency: N/A
Efficacy: 111.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

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	42
1	96	92	88	85	88	84	81	78	69	67	65	56	54	53	43	42	41	35
2	88	81	75	70	80	74	69	64	61	57	54	49	47	44	38	37	35	30
3	80	71	64	58	73	65	59	54	54	49	46	44	40	38	34	32	30	26
4	73	63	55	49	67	58	51	46	48	43	39	39	35	33	31	28	26	22
5	67	56	48	42	61	52	45	39	43	38	34	35	31	28	28	25	23	19
6	62	50	42	37	56	46	39	34	39	33	29	32	28	25	25	22	20	17
7	57	45	38	32	52	42	35	30	35	30	26	29	25	22	23	20	18	15
8	53	41	34	28	48	38	31	27	32	27	23	26	22	20	21	18	16	14
9	49	38	30	25	45	35	28	24	29	24	21	24	20	18	19	17	15	12
10	46	34	27	23	42	32	25	21	27	22	19	22	19	16	18	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8388	8388	8388
5°	8463	8398	8355
10°	8436	8378	8334
15°	8400	8347	8302
20°	8357	8303	8242
25°	8299	8243	8147
30°	8209	8151	8034
35°	8088	8017	7902
40°	7903	7819	7677
45°	7581	7449	7295
50°	7013	6845	6710
55°	6122	5984	5857
60°	5159	5115	5014
65°	4462	4480	4445
70°	4098	4119	4119
75°	3935	3935	3964
80°	3703	3746	3703
85°	2985	3313	3313



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.0	1.6
10°-20°	246.0	4.5
20°-30°	371.0	6.8
30°-40°	442.1	8.1
40°-50°	435.8	8.0
50°-60°	333.1	6.1
60°-70°	206.1	3.8
70°-80°	117.1	2.1
80°-90°	36.6	0.7
90°-100°	230.4	4.2
100°-110°	635.9	11.6
110°-120°	655.9	12.0
120°-130°	527.0	9.6
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°	703.0	12.9
0°-40°	1145.0	20.9
0°-60°	1914.0	35.0
0°-90°	2273.8	41.6
90°-120°	1522.1	27.8
90°-150°	2781.0	50.8
90°-180°	3196.0	58.4
0°-180°	5469.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	909	909	909	909	909	
5°	914	904	907	904	902	87
15°	879	870	874	871	869	248
25°	815	805	810	801	800	375
35°	718	710	712	702	702	448
45°	581	573	571	561	559	445
55°	381	374	372	366	364	341
65°	204	203	205	204	204	207
75°	110	110	110	111	111	117
85°	28	30	31	31	31	33
90°	2	3	6	7	8	4
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°	909.1	909.1	909.1	909.1	909.1
2.5°	914.8	906.8	909.1	907.2	902.9
5°	913.8	903.9	906.8	903.6	902.1
7.5°	906.8	897.0	899.9	896.8	895.8
10°	900.5	891.3	894.3	891.1	889.6
12.5°	893.6	883.8	887.4	883.6	882.1
15°	879.4	870.2	873.9	870.7	869.2
17.5°	863.7	853.9	857.6	854.0	852.0
20°	851.2	842.0	845.7	840.2	839.5
22.5°	837.4	828.2	831.9	824.6	824.4
25°	815.2	805.2	809.7	801.1	800.3
27.5°	788.7	779.5	783.2	774.4	773.5
30°	770.5	761.4	765.1	755.6	754.1
32.5°	749.9	741.3	744.4	735.0	734.1
35°	718.1	709.7	711.8	702.4	701.6
37.5°	681.9	674.2	675.5	665.1	664.4
40°	656.2	648.6	649.2	638.2	637.4
42.5°	628.0	620.4	619.7	608.7	608.0
45°	581.0	573.4	570.9	560.6	559.1
47.5°	527.5	519.8	515.1	506.8	505.7
50°	488.6	481.0	476.9	469.8	467.5
52.5°	446.7	439.0	435.5	429.1	426.8
55°	380.6	374.4	372.0	365.7	364.1
57.5°	317.8	313.6	312.9	306.8	306.2
60°	279.6	277.3	277.2	271.7	271.7
62.5°	247.0	245.3	246.5	242.9	242.3
65°	204.4	202.9	205.2	203.6	203.6
67.5°	170.7	170.7	172.1	171.5	171.5
70°	151.9	151.9	152.7	152.7	152.7
72.5°	135.0	134.4	136.4	136.4	135.8
75°	110.4	110.4	110.4	111.2	111.2
77.5°	86.0	86.1	86.8	86.6	86.0
80°	69.7	70.5	70.5	69.7	69.7
82.5°	53.4	54.2	54.2	54.0	53.4
85°	28.2	29.7	31.3	31.3	31.3
87.5°	8.5	11.2	13.8	13.9	13.5
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



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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)