

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: P563466

Luminaire Tested: **SQ4-PP3-0U-050D-830-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563466
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-0U-050D-830-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

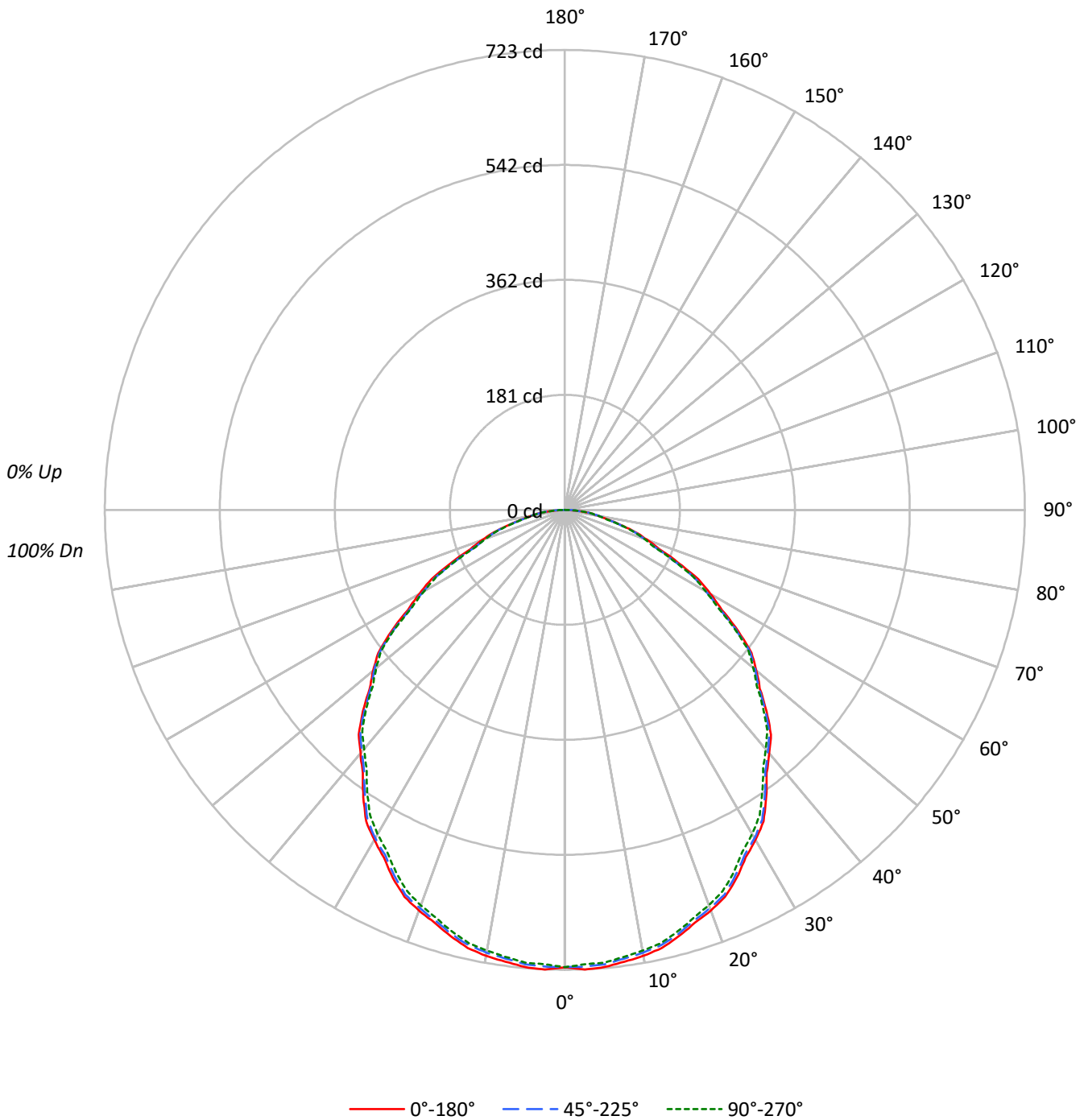
Lumens per Lamp: N/A
Luminaire Lumens: 1840.0 lumens
Efficiency: N/A
Efficacy: 113.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 16.2
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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100	
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85			85	
2	100	92	86	80	97	90	84	79	87	82	77	84	79	76	81	77	74	72			72	
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61			61	
4	84	72	64	57	82	71	63	57	69	62	56	66	60	56	64	59	55	53			53	
5	77	65	56	50	75	64	56	49	62	54	49	60	53	48	58	52	48	46			46	
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42	40			40	
7	66	53	45	39	65	52	44	39	51	44	38	49	43	38	48	42	38	36			36	
8	62	49	40	35	60	48	40	34	47	39	34	45	39	34	44	38	34	32			32	
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29			29	
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26			26	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6633	6633	6633
5°	6681	6640	6617
10°	6670	6623	6594
15°	6626	6590	6553
20°	6582	6545	6496
25°	6504	6459	6395
30°	6384	6349	6270
35°	6216	6173	6096
40°	6017	5980	5911
45°	5853	5811	5754
50°	5644	5606	5553
55°	5352	5281	5239
60°	4871	4731	4709
65°	4292	4113	4100
70°	3706	3553	3553
75°	3190	3144	3098
80°	2811	2848	2779
85°	2202	2403	2403



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.0	3.7
10°-20°	194.1	10.5
20°-30°	290.7	15.8
30°-40°	341.0	18.5
40°-50°	342.1	18.6
50°-60°	291.8	15.9
60°-70°	190.3	10.3
70°-80°	95.5	5.2
80°-90°	26.4	1.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	552.8	30.0
0°-40°	893.8	48.6
0°-60°	1527.7	83.0
0°-90°	1840.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1840.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	719	719	719	719	719	
5°	721	715	717	714	714	69
15°	694	687	690	687	686	196
25°	639	632	634	629	628	294
35°	552	546	548	542	541	345
45°	449	446	445	441	441	345
55°	333	331	328	326	326	296
65°	197	193	188	187	188	196
75°	90	90	88	88	87	97
85°	21	23	23	23	23	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	718.9	718.9	718.9	718.9	718.9
2.5°	723.4	717.5	718.9	717.8	714.9
5°	721.4	714.6	717.0	714.5	714.5
7.5°	716.5	709.1	711.5	708.9	708.8
10°	712.0	704.6	706.9	704.4	703.8
12.5°	705.4	698.0	700.9	697.8	697.7
15°	693.7	686.9	689.9	687.4	686.1
17.5°	680.5	673.1	676.7	673.1	672.6
20°	670.4	663.0	666.6	661.6	661.6
22.5°	658.3	650.9	655.0	648.5	648.5
25°	638.9	631.5	634.5	628.8	628.2
27.5°	615.8	608.5	611.7	605.2	605.1
30°	599.2	592.4	596.0	589.1	588.5
32.5°	581.0	574.8	577.4	570.4	569.8
35°	551.9	546.4	548.1	541.8	541.2
37.5°	521.3	515.6	517.7	512.2	512.0
40°	499.6	495.9	496.5	492.0	490.8
42.5°	479.5	475.3	475.8	471.4	471.2
45°	448.6	445.5	445.4	441.0	441.0
47.5°	415.8	413.5	412.8	409.2	409.0
50°	393.2	391.3	390.6	387.5	386.9
52.5°	369.5	368.6	366.4	363.8	363.7
55°	332.7	331.4	328.3	326.4	325.7
57.5°	292.7	290.3	286.7	283.9	284.4
60°	264.0	261.5	256.4	255.2	255.2
62.5°	236.3	233.3	228.2	226.5	227.5
65°	196.6	192.9	188.4	187.1	187.8
67.5°	160.5	157.2	152.3	152.3	151.8
70°	137.4	135.5	131.7	131.7	131.7
72.5°	116.7	115.8	113.0	113.0	112.5
75°	89.5	89.5	88.2	87.6	86.9
77.5°	67.0	67.3	66.7	66.0	64.9
80°	52.9	54.2	53.6	52.9	52.3
82.5°	39.8	41.1	41.0	39.8	39.7
85°	20.8	22.6	22.7	22.7	22.7
87.5°	5.5	7.5	8.1	8.1	8.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)