

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: P561933

Luminaire Tested: **SQ4-PR1-0U-050D-92765-1D-UNV-STD-W-4 (2700K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561933
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (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-PR1-0U-050D-92765-1D-UNV-STD-W-4 (2700K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS
DOWNLIGHT 500 LUMENS PER FOOT
DIRECT ONLY
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

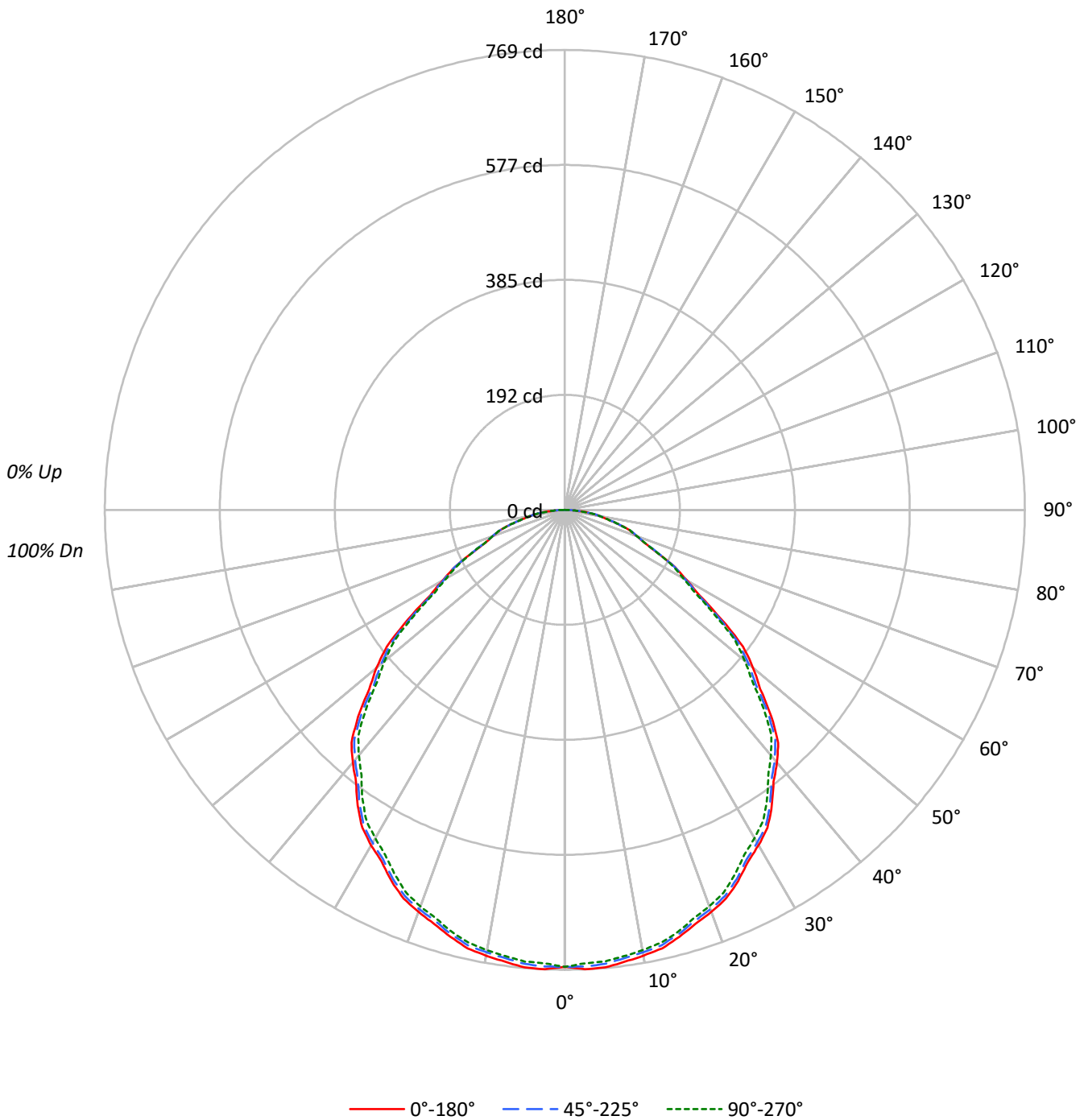
Lumens per Lamp: N/A
Luminaire Lumens: 1910.2 lumens
Efficiency: N/A
Efficacy: 92.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 20.6
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	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85			85	
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72			72	
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62			62	
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	54			54	
5	78	66	57	51	76	65	57	50	63	55	50	61	54	49	59	53	49	47			47	
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43	41			41	
7	67	54	46	40	65	53	45	39	52	44	39	50	44	39	49	43	39	37			37	
8	63	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	33			33	
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30			30	
10	55	42	34	29	54	41	34	29	40	34	29	40	33	29	39	33	29	27			27	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7050	7050	7050
5°	7114	7059	7022
10°	7091	7041	7005
15°	7060	7016	6978
20°	7024	6979	6928
25°	6975	6927	6847
30°	6899	6850	6752
35°	6797	6739	6642
40°	6642	6571	6452
45°	6373	6260	6131
50°	5895	5753	5639
55°	5146	5028	4922
60°	4336	4299	4215
65°	3751	3764	3735
70°	3445	3461	3461
75°	3308	3308	3333
80°	3114	3145	3114
85°	2509	2784	2784



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.3	3.8
10°-20°	206.7	10.8
20°-30°	311.8	16.3
30°-40°	371.6	19.5
40°-50°	366.3	19.2
50°-60°	280.0	14.7
60°-70°	173.2	9.1
70°-80°	98.4	5.2
80°-90°	29.9	1.6
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°	590.8	30.9
0°-40°	962.4	50.4
0°-60°	1608.6	84.2
0°-90°	1910.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1910.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	764	764	764	764	764	
5°	768	760	762	760	758	73
15°	739	731	734	732	731	209
25°	685	677	680	673	673	315
35°	604	596	598	590	590	377
45°	488	482	480	471	470	374
55°	320	315	313	307	306	287
65°	172	170	172	171	171	174
75°	93	93	93	94	94	98
85°	24	25	26	26	26	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	764.1	764.1	764.1	764.1	764.1
2.5°	768.9	762.2	764.1	762.5	758.9
5°	768.1	759.7	762.2	759.5	758.2
7.5°	762.2	753.9	756.4	753.7	752.9
10°	756.9	749.2	751.6	749.0	747.7
12.5°	751.1	742.9	745.8	742.6	741.4
15°	739.1	731.4	734.5	731.9	730.6
17.5°	726.0	717.7	720.8	717.8	716.1
20°	715.4	707.7	710.8	706.2	705.6
22.5°	703.8	696.1	699.2	693.0	692.9
25°	685.2	676.8	680.5	673.3	672.6
27.5°	662.9	655.2	658.3	650.9	650.1
30°	647.6	639.9	643.0	635.1	633.8
32.5°	630.3	623.1	625.7	617.7	617.0
35°	603.5	596.5	598.3	590.4	589.7
37.5°	573.1	566.7	567.7	559.0	558.4
40°	551.5	545.1	545.6	536.4	535.7
42.5°	527.8	521.4	520.9	511.6	511.0
45°	488.4	481.9	479.8	471.2	469.9
47.5°	443.3	436.9	432.9	425.9	425.0
50°	410.7	404.3	400.8	394.9	392.9
52.5°	375.4	369.0	366.1	360.6	358.7
55°	319.9	314.7	312.6	307.3	306.0
57.5°	267.1	263.6	263.0	257.9	257.3
60°	235.0	233.0	233.0	228.4	228.4
62.5°	207.6	206.2	207.2	204.2	203.6
65°	171.8	170.5	172.4	171.1	171.1
67.5°	143.5	143.5	144.7	144.1	144.1
70°	127.7	127.7	128.3	128.3	128.3
72.5°	113.5	113.0	114.7	114.6	114.1
75°	92.8	92.8	92.8	93.5	93.5
77.5°	72.3	72.4	72.9	72.8	72.3
80°	58.6	59.2	59.2	58.6	58.6
82.5°	44.9	45.5	45.5	45.4	44.9
85°	23.7	25.0	26.3	26.3	26.3
87.5°	6.8	8.9	10.5	10.5	10.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)