

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: P561937

Luminaire Tested: **SQ4-PR1-0U-050D-92765-1D-UNV-STD-W-4 (4500K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561937
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 (4500K)
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 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

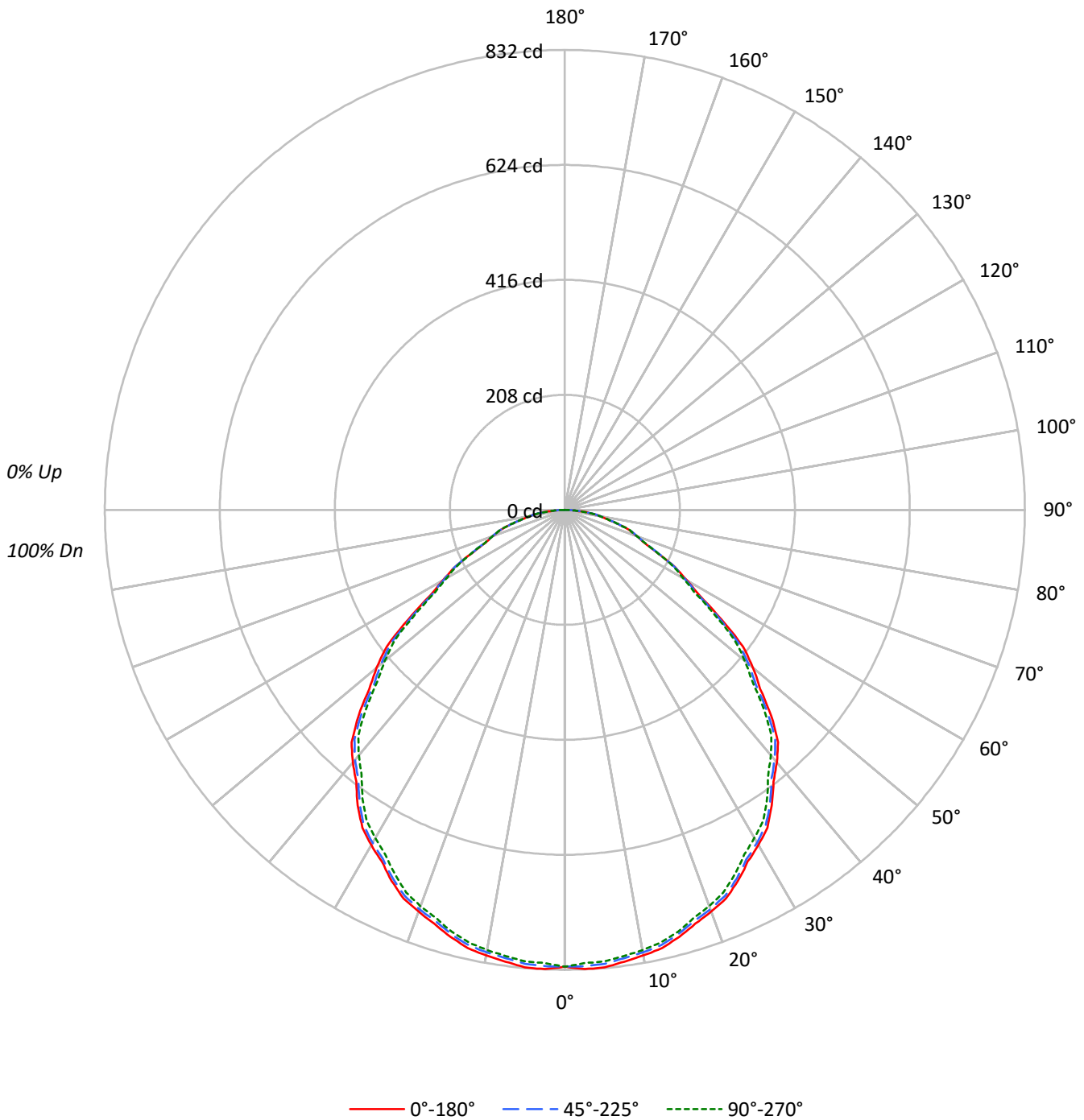
Lumens per Lamp: N/A
Luminaire Lumens: 2066.0 lumens
Efficiency: N/A
Efficacy: 99.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 20.7
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				
RC	80					70					50					30				
RW	70	50	30	10	70	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		
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72		
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62		
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	54		
5	78	66	57	51	76	65	57	50	63	55	50	61	54	49	59	53	49	47		
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43	41		
7	67	54	46	40	65	53	45	39	52	44	39	50	44	39	49	43	39	37		
8	63	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	33		
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30		
10	55	42	34	29	54	41	34	29	40	34	29	40	33	29	39	33	29	27		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7625	7625	7625
5°	7693	7634	7594
10°	7669	7616	7575
15°	7636	7588	7547
20°	7596	7548	7492
25°	7543	7492	7406
30°	7462	7408	7303
35°	7351	7287	7184
40°	7184	7107	6978
45°	6892	6771	6631
50°	6376	6222	6100
55°	5564	5438	5324
60°	4689	4650	4558
65°	4056	4071	4041
70°	3725	3744	3744
75°	3579	3579	3604
80°	3369	3406	3369
85°	2710	3017	3017



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.1	3.8
10°-20°	223.6	10.8
20°-30°	337.3	16.3
30°-40°	401.8	19.4
40°-50°	396.2	19.2
50°-60°	302.8	14.7
60°-70°	187.4	9.1
70°-80°	106.4	5.2
80°-90°	32.4	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°	639.0	30.9
0°-40°	1040.8	50.4
0°-60°	1739.8	84.2
0°-90°	2066.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2066.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	826	826	826	826	826	
5°	831	822	824	821	820	79
15°	799	791	794	792	790	226
25°	741	732	736	728	728	341
35°	653	645	647	638	638	407
45°	528	521	519	510	508	405
55°	346	340	338	332	331	310
65°	186	184	186	185	185	188
75°	100	100	100	101	101	106
85°	26	27	28	28	28	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	826.4	826.4	826.4	826.4	826.4
2.5°	831.5	824.3	826.4	824.6	820.7
5°	830.7	821.6	824.3	821.4	820.0
7.5°	824.3	815.4	818.0	815.1	814.3
10°	818.6	810.2	812.9	810.0	808.6
12.5°	812.3	803.4	806.6	803.2	801.8
15°	799.4	791.0	794.4	791.5	790.1
17.5°	785.1	776.2	779.6	776.3	774.5
20°	773.7	765.4	768.8	763.8	763.1
22.5°	761.2	752.9	756.2	749.5	749.4
25°	741.0	731.9	736.0	728.2	727.5
27.5°	716.9	708.6	712.0	704.0	703.1
30°	700.4	692.1	695.4	686.9	685.5
32.5°	681.6	673.8	676.6	668.1	667.3
35°	652.7	645.1	647.0	638.5	637.8
37.5°	619.8	612.9	614.0	604.6	603.9
40°	596.5	589.5	590.1	580.1	579.4
42.5°	570.9	563.9	563.3	553.3	552.7
45°	528.2	521.2	518.9	509.6	508.2
47.5°	479.5	472.5	468.2	460.7	459.7
50°	444.2	437.2	433.5	427.0	425.0
52.5°	406.0	399.1	395.9	390.0	387.9
55°	345.9	340.4	338.1	332.4	331.0
57.5°	288.9	285.1	284.4	278.9	278.3
60°	254.1	252.0	252.0	247.0	247.0
62.5°	224.5	223.0	224.1	220.8	220.2
65°	185.8	184.4	186.5	185.1	185.1
67.5°	155.2	155.2	156.5	155.9	155.9
70°	138.1	138.1	138.8	138.8	138.8
72.5°	122.7	122.2	124.0	124.0	123.4
75°	100.4	100.4	100.4	101.1	101.1
77.5°	78.2	78.3	78.9	78.7	78.2
80°	63.4	64.0	64.1	63.4	63.4
82.5°	48.5	49.2	49.3	49.1	48.5
85°	25.6	27.0	28.5	28.5	28.5
87.5°	7.4	9.6	11.4	11.4	10.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)