

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: P562303

Luminaire Tested: **SQ4-PW1-0U-050D-92765-1D-UNV-STD-W-4 (5700K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562303  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (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-PW1-0U-050D-92765-1D-UNV-STD-W-4 (5700K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS  
DOWNLIGHT 500 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

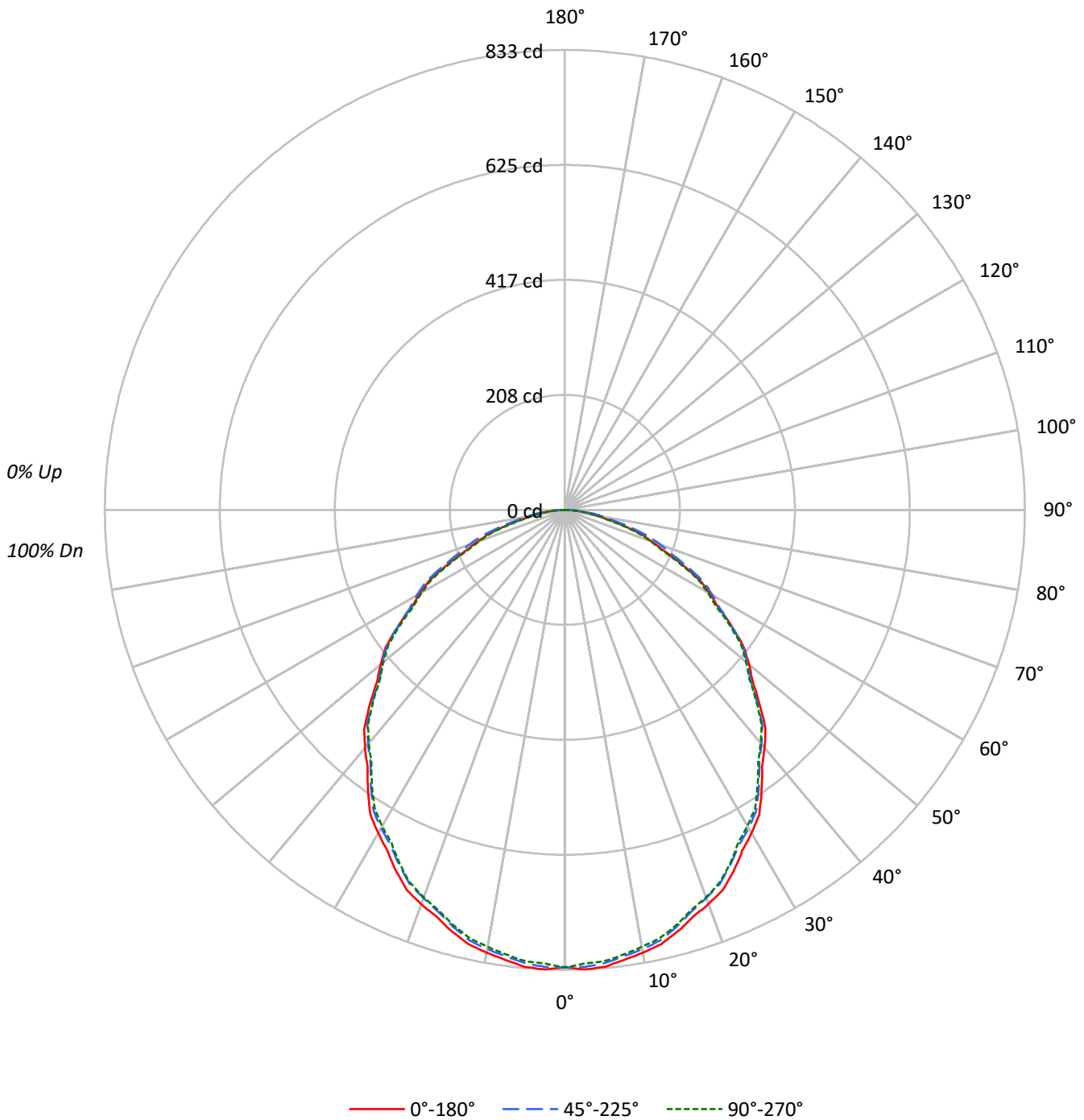
Lumens per Lamp: N/A  
Luminaire Lumens: 2107.9 lumens  
Efficiency: N/A  
Efficacy: 102.3 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Direct

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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	109	105	101	97	107	102	99	95	98	95	92		94	92	89		91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77		83	79	75		80	76	73	71
3	91	81	73	67	89	79	72	66	76	70	65		74	68	64		71	66	63	60
4	84	72	63	57	81	71	63	56	68	61	56		66	60	55		64	58	54	52
5	77	64	56	49	75	63	55	49	61	54	48		59	53	48		57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42		54	47	42		52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38		49	42	37		48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34		45	38	34		44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	31		42	35	30		41	35	30	28
10	54	41	33	28	53	40	33	28	39	33	28		39	32	28		38	32	28	26

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	7644	7644	7644
5°	7693	7632	7599
10°	7632	7570	7529
15°	7551	7467	7439
20°	7461	7346	7331
25°	7356	7223	7200
30°	7201	7092	7045
35°	6997	6898	6857
40°	6778	6672	6646
45°	6515	6429	6400
50°	6244	6192	6150
55°	5953	5953	5858
60°	5589	5698	5495
65°	5115	5370	4988
70°	4510	4942	4392
75°	3850	4424	3747
80°	2986	3725	3023
85°	1927	2858	2551



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	78.0	3.7
10°-20°	220.3	10.4
20°-30°	326.7	15.5
30°-40°	382.3	18.1
40°-50°	380.6	18.1
50°-60°	328.7	15.6
60°-70°	236.6	11.2
70°-80°	124.1	5.9
80°-90°	30.8	1.5
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°	625.0	29.6
0°-40°	1007.3	47.8
0°-60°	1716.5	81.4
0°-90°	2107.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2107.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	828	828	828	828	828	
5°	831	821	824	822	820	79
15°	790	780	782	780	779	223
25°	723	710	710	705	707	332
35°	621	613	612	607	609	388
45°	499	495	493	491	490	385
55°	370	369	370	365	364	330
65°	234	241	246	236	228	232
75°	108	118	124	116	105	116
85°	18	24	27	26	24	25
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	828.5	828.5	828.5	828.5	828.5
2.5°	833.2	826.3	828.5	826.6	822.6
5°	830.7	821.4	824.1	821.9	820.5
7.5°	822.2	813.6	815.6	813.3	812.4
10°	814.6	806.0	808.0	805.1	803.7
12.5°	805.9	796.7	798.7	795.8	794.9
15°	790.5	780.5	781.8	780.3	778.8
17.5°	772.7	762.6	762.8	760.4	760.2
20°	759.9	749.2	748.2	745.3	746.7
22.5°	745.9	734.6	733.6	729.5	731.5
25°	722.6	710.5	709.5	705.2	707.3
27.5°	695.8	683.8	683.8	677.7	680.0
30°	675.9	664.5	665.7	658.5	661.3
32.5°	654.9	644.6	645.3	638.0	640.9
35°	621.2	612.6	612.4	606.6	608.8
37.5°	586.7	579.2	578.0	574.6	575.2
40°	562.8	556.4	554.0	551.8	551.8
42.5°	537.7	531.8	529.5	527.9	527.3
45°	499.3	495.0	492.7	491.2	490.5
47.5°	461.3	457.3	455.3	454.3	453.6
50°	435.0	432.2	431.4	429.2	428.5
52.5°	408.8	407.1	406.3	403.5	402.8
55°	370.1	369.4	370.1	365.0	364.2
57.5°	329.8	330.9	333.3	326.4	324.7
60°	302.9	305.8	308.8	300.7	297.8
62.5°	275.5	280.0	284.2	275.0	271.0
65°	234.3	241.4	246.0	236.3	228.5
67.5°	194.6	203.5	208.9	198.5	189.6
70°	167.2	177.1	183.2	172.8	162.8
72.5°	143.2	154.3	159.3	149.4	139.4
75°	108.0	118.0	124.1	115.8	105.1
77.5°	76.6	86.1	91.1	83.9	75.0
80°	56.2	66.2	70.1	64.1	56.9
82.5°	39.9	48.1	50.8	47.2	42.3
85°	18.2	24.0	27.0	25.5	24.1
87.5°	4.7	8.7	11.1	11.1	11.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)