

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: P561940

Luminaire Tested: **SQ4-PR1-0U-050D-92765-1D-UNV-STD-W-4 (6500K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561940
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 (6500K)
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 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2138.7 lumens
Efficiency: N/A
Efficacy: 104.3 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

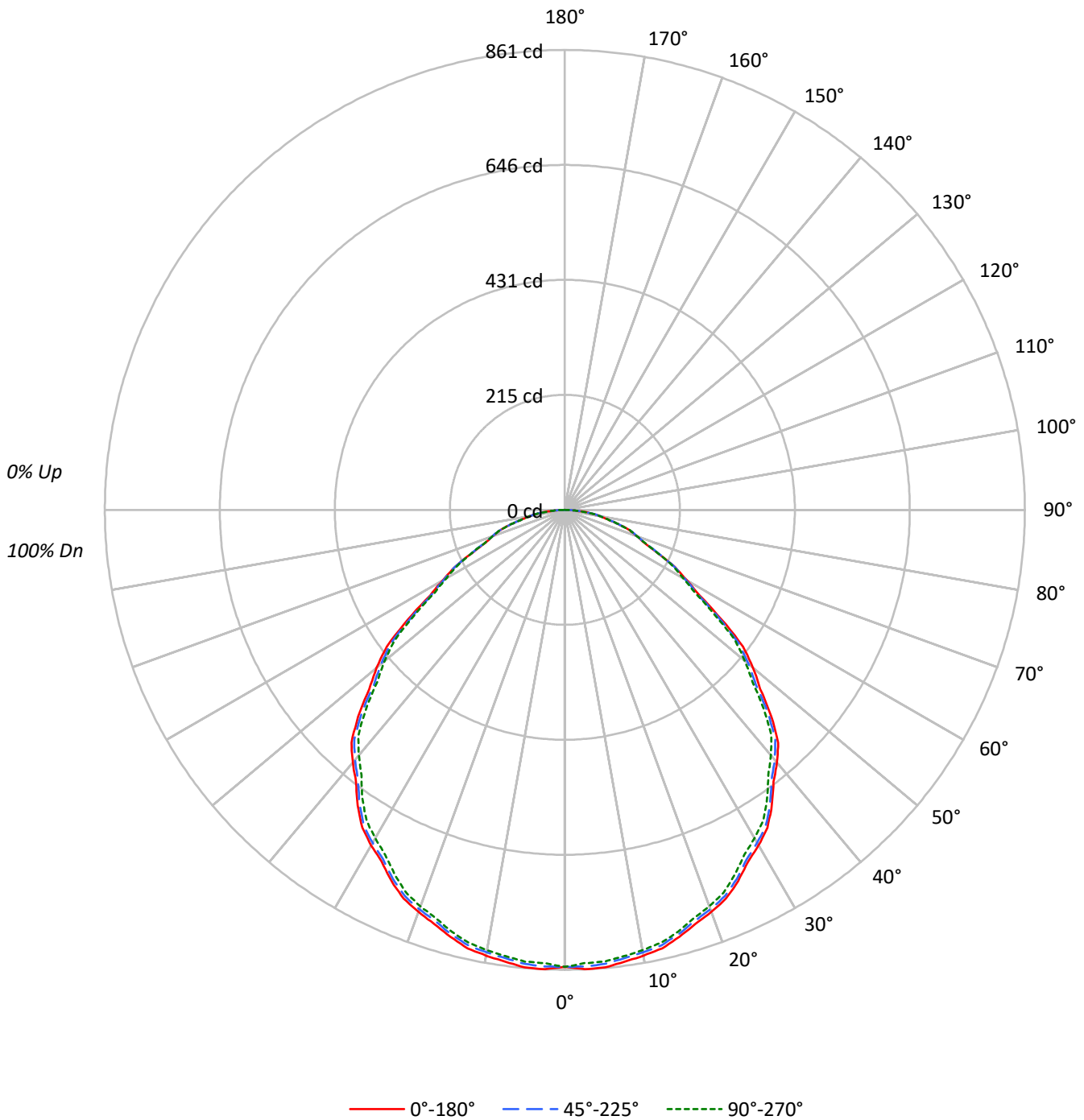
Input Watts (W): 20.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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				
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°	7893	7893	7893
5°	7964	7903	7862
10°	7939	7884	7842
15°	7904	7854	7812
20°	7864	7813	7755
25°	7809	7756	7667
30°	7725	7669	7560
35°	7610	7544	7436
40°	7437	7358	7224
45°	7135	7009	6864
50°	6600	6440	6314
55°	5760	5630	5511
60°	4855	4812	4718
65°	4198	4216	4183
70°	3858	3876	3876
75°	3704	3704	3729
80°	3485	3523	3485
85°	2805	3123	3123



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.9	3.8
10°-20°	231.5	10.8
20°-30°	349.1	16.3
30°-40°	416.0	19.5
40°-50°	410.1	19.2
50°-60°	313.4	14.7
60°-70°	194.0	9.1
70°-80°	110.2	5.2
80°-90°	33.5	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°	661.5	30.9
0°-40°	1077.5	50.4
0°-60°	1801.0	84.2
0°-90°	2138.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2138.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	856	856	856	856	856	
5°	860	850	853	850	849	82
15°	828	819	822	819	818	234
25°	767	758	762	754	753	353
35°	676	668	670	661	660	422
45°	547	540	537	528	526	419
55°	358	352	350	344	343	321
65°	192	191	193	192	192	195
75°	104	104	104	105	105	110
85°	26	28	30	30	30	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	855.5	855.5	855.5	855.5	855.5
2.5°	860.8	853.3	855.5	853.6	849.6
5°	859.9	850.5	853.3	850.3	848.9
7.5°	853.3	844.1	846.8	843.8	843.0
10°	847.4	838.7	841.5	838.5	837.1
12.5°	840.9	831.7	835.0	831.4	830.0
15°	827.5	818.8	822.3	819.4	817.9
17.5°	812.8	803.5	807.0	803.6	801.7
20°	801.0	792.3	795.8	790.6	789.9
22.5°	788.0	779.4	782.8	775.9	775.8
25°	767.1	757.7	761.9	753.8	753.1
27.5°	742.2	733.5	737.0	728.7	727.9
30°	725.1	716.4	719.9	711.0	709.6
32.5°	705.6	697.5	700.5	691.6	690.7
35°	675.7	667.8	669.8	660.9	660.2
37.5°	641.7	634.5	635.6	625.9	625.2
40°	617.5	610.3	610.9	600.5	599.8
42.5°	591.0	583.8	583.2	572.8	572.1
45°	546.8	539.5	537.2	527.6	526.1
47.5°	496.3	489.1	484.7	476.9	475.9
50°	459.8	452.6	448.7	442.1	439.9
52.5°	420.3	413.1	409.8	403.8	401.6
55°	358.1	352.4	350.0	344.1	342.6
57.5°	299.0	295.1	294.4	288.7	288.1
60°	263.1	260.9	260.8	255.7	255.7
62.5°	232.4	230.8	232.0	228.6	228.0
65°	192.3	190.9	193.1	191.6	191.6
67.5°	160.6	160.6	162.0	161.4	161.4
70°	143.0	143.0	143.7	143.7	143.7
72.5°	127.0	126.5	128.4	128.3	127.8
75°	103.9	103.9	103.9	104.6	104.6
77.5°	80.9	81.1	81.6	81.5	80.9
80°	65.6	66.3	66.3	65.6	65.6
82.5°	50.3	51.0	51.0	50.8	50.3
85°	26.5	28.0	29.5	29.5	29.5
87.5°	7.7	10.0	11.8	11.8	11.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)