

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: P561934

Luminaire Tested: **SQ4-PR1-0U-050D-92765-1D-UNV-STD-W-4 (3000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561934
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 (3000K)
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 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1949.8 lumens
Efficiency: N/A
Efficacy: 94.2 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

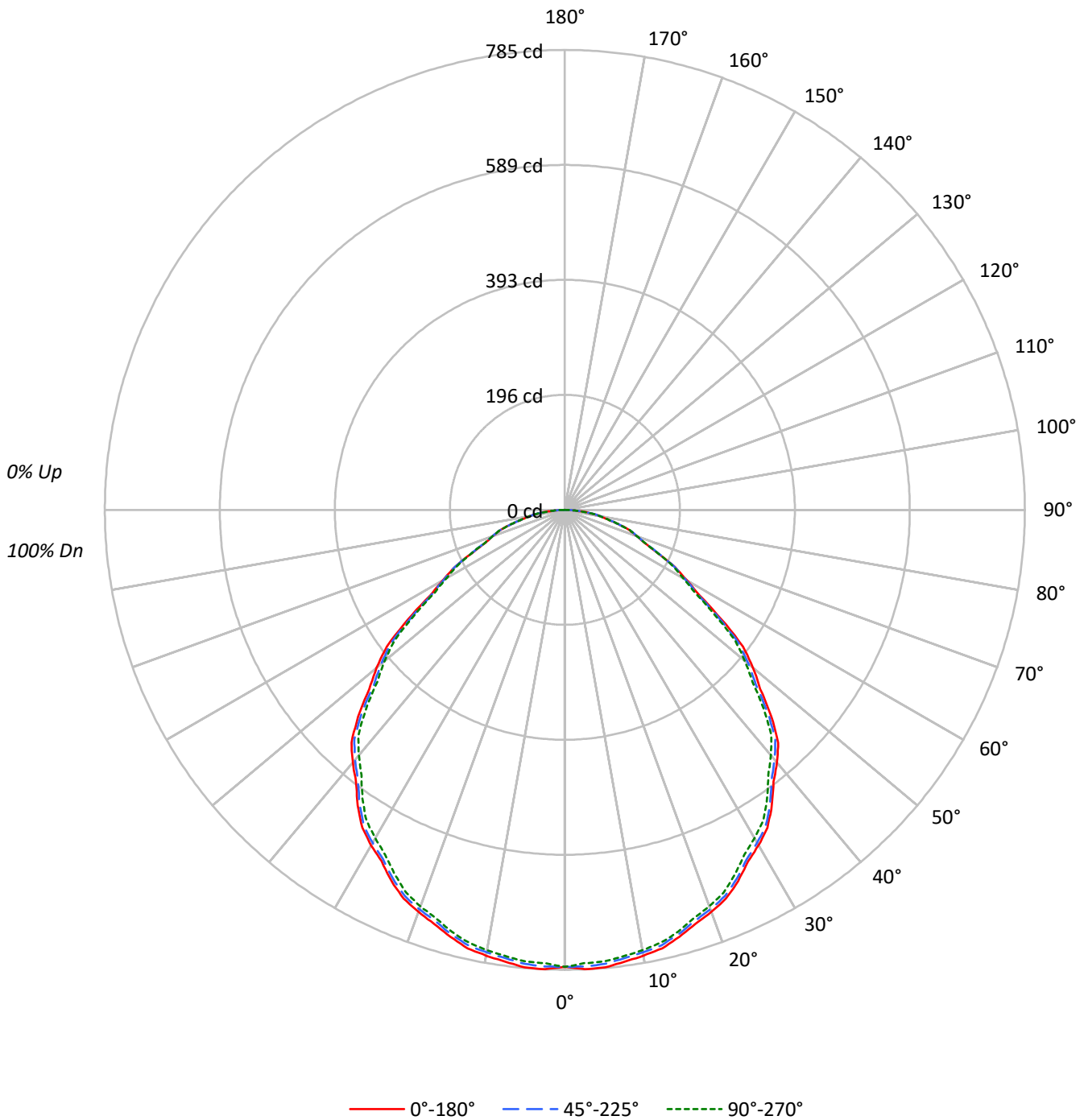
Input Watts (W): 20.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P561934

CATALOG NUMBER: SQ4-PR1-0U-050D-92765-1D-UNV-STD-W-4 (3000K)

Luminous Intensity Polar Plot





TEST NUMBER: P561934

CATALOG NUMBER: SQ4-PR1-0U-050D-92765-1D-UNV-STD-W-4 (3000K)

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°	7196	7196	7196
5°	7261	7205	7167
10°	7238	7188	7150
15°	7206	7161	7123
20°	7170	7124	7071
25°	7120	7071	6990
30°	7043	6993	6892
35°	6938	6878	6779
40°	6781	6707	6587
45°	6504	6390	6259
50°	6017	5872	5757
55°	5252	5133	5025
60°	4425	4388	4301
65°	3827	3842	3814
70°	3515	3534	3534
75°	3376	3376	3401
80°	3177	3214	3177
85°	2562	2848	2848



TEST NUMBER: P561934

CATALOG NUMBER: SQ4-PR1-OU-050D-92765-1D-UNV-STD-W-4 (3000K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.8	3.8
10°-20°	211.0	10.8
20°-30°	318.3	16.3
30°-40°	379.2	19.5
40°-50°	373.9	19.2
50°-60°	285.8	14.7
60°-70°	176.8	9.1
70°-80°	100.4	5.2
80°-90°	30.6	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°	603.1	30.9
0°-40°	982.3	50.4
0°-60°	1642.0	84.2
0°-90°	1949.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1949.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	780	780	780	780	780	
5°	784	776	778	775	774	74
15°	754	747	750	747	746	213
25°	699	691	695	687	687	322
35°	616	609	611	603	602	384
45°	498	492	490	481	480	382
55°	326	321	319	314	312	293
65°	175	174	176	175	175	178
75°	95	95	95	95	95	100
85°	24	26	27	27	27	29
90°	0	0	0	0	0	



TEST NUMBER: P561934

CATALOG NUMBER: SQ4-PR1-0U-050D-92765-1D-UNV-STD-W-4 (3000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	780.0	780.0	780.0	780.0	780.0
2.5°	784.8	778.0	780.0	778.3	774.6
5°	784.0	775.5	778.0	775.2	773.9
7.5°	778.0	769.5	772.0	769.3	768.5
10°	772.6	764.7	767.2	764.5	763.2
12.5°	766.7	758.3	761.3	758.0	756.7
15°	754.4	746.6	749.7	747.0	745.7
17.5°	741.0	732.6	735.8	732.6	730.9
20°	730.3	722.4	725.6	720.8	720.2
22.5°	718.4	710.5	713.7	707.4	707.3
25°	699.4	690.8	694.6	687.2	686.6
27.5°	676.6	668.8	671.9	664.4	663.6
30°	661.1	653.2	656.4	648.3	646.9
32.5°	643.3	636.0	638.6	630.5	629.8
35°	616.0	608.8	610.7	602.6	601.9
37.5°	585.0	578.4	579.5	570.6	570.0
40°	563.0	556.4	556.9	547.5	546.9
42.5°	538.8	532.2	531.7	522.2	521.6
45°	498.5	491.9	489.7	481.0	479.7
47.5°	452.5	446.0	441.9	434.8	433.9
50°	419.2	412.6	409.1	403.0	401.1
52.5°	383.2	376.6	373.7	368.1	366.1
55°	326.5	321.2	319.1	313.7	312.4
57.5°	272.6	269.1	268.5	263.2	262.7
60°	239.8	237.9	237.8	233.1	233.1
62.5°	211.9	210.4	211.5	208.4	207.9
65°	175.3	174.0	176.0	174.7	174.7
67.5°	146.5	146.5	147.7	147.1	147.1
70°	130.3	130.3	131.0	131.0	131.0
72.5°	115.8	115.3	117.0	117.0	116.5
75°	94.7	94.7	94.7	95.4	95.4
77.5°	73.8	73.9	74.4	74.3	73.8
80°	59.8	60.4	60.5	59.8	59.8
82.5°	45.8	46.5	46.5	46.3	45.8
85°	24.2	25.5	26.9	26.9	26.9
87.5°	7.0	9.1	10.7	10.7	10.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)