

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: P561947

Luminaire Tested: **SQ4-PR1-0U-075D-92765-1D-UNV-STD-W-4 (3000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561947
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-075D-92765-1D-UNV-STD-W-4 (3000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS
DOWNLIGHT 750 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: 2920.1 lumens
Efficiency: N/A
Efficacy: 91.5 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

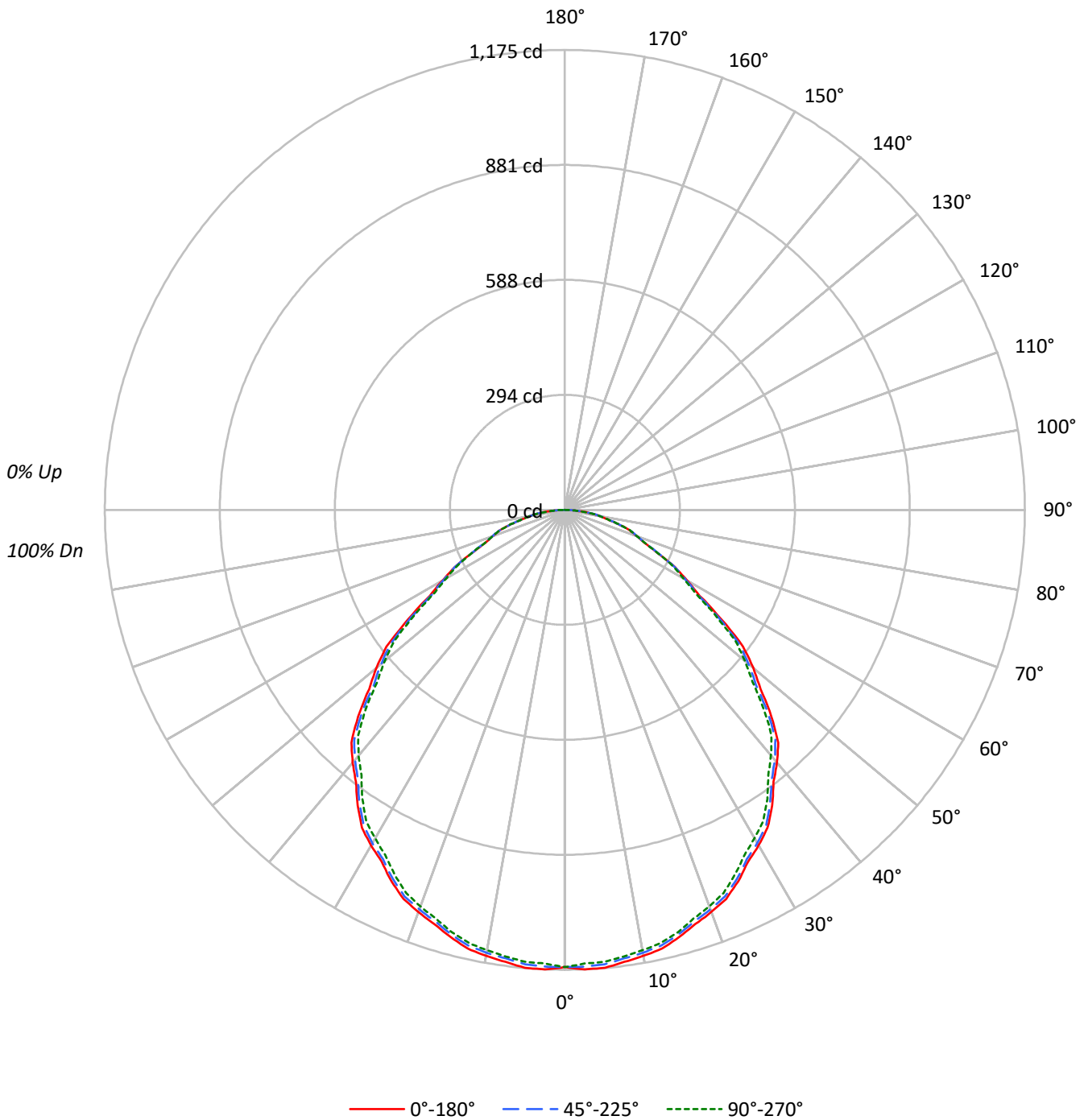
Input Watts (W): 31.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	10777	10777	10777
5°	10874	10791	10734
10°	10839	10764	10707
15°	10792	10725	10667
20°	10738	10669	10590
25°	10663	10590	10468
30°	10547	10472	10322
35°	10391	10301	10154
40°	10154	10046	9864
45°	9740	9571	9374
50°	9011	8794	8622
55°	7866	7687	7525
60°	6628	6573	6442
65°	5733	5755	5711
70°	5266	5293	5293
75°	5058	5058	5094
80°	4755	4814	4755
85°	3832	4256	4256



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.5	3.8
10°-20°	316.0	10.8
20°-30°	476.7	16.3
30°-40°	568.0	19.5
40°-50°	560.0	19.2
50°-60°	428.0	14.7
60°-70°	264.8	9.1
70°-80°	150.4	5.2
80°-90°	45.7	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°	903.2	30.9
0°-40°	1471.2	50.4
0°-60°	2459.1	84.2
0°-90°	2920.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2920.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1168	1168	1168	1168	1168	
5°	1174	1161	1165	1161	1159	111
15°	1130	1118	1123	1119	1117	319
25°	1047	1035	1040	1029	1028	482
35°	923	912	915	902	902	576
45°	746	737	734	720	718	572
55°	489	481	478	470	468	438
65°	263	261	264	262	262	266
75°	142	142	142	143	143	150
85°	36	38	40	40	40	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1168.1	1168.1	1168.1	1168.1	1168.1
2.5°	1175.3	1165.1	1168.1	1165.6	1160.1
5°	1174.1	1161.4	1165.1	1161.0	1159.0
7.5°	1165.1	1152.5	1156.2	1152.2	1151.0
10°	1157.0	1145.2	1149.0	1144.9	1142.9
12.5°	1148.2	1135.6	1140.1	1135.3	1133.3
15°	1129.9	1118.1	1122.8	1118.8	1116.8
17.5°	1109.7	1097.2	1101.9	1097.2	1094.7
20°	1093.7	1081.8	1086.6	1079.5	1078.6
22.5°	1075.9	1064.1	1068.9	1059.4	1059.2
25°	1047.4	1034.6	1040.3	1029.2	1028.3
27.5°	1013.4	1001.6	1006.3	995.0	993.8
30°	990.0	978.2	983.0	970.9	968.9
32.5°	963.5	952.4	956.4	944.3	943.1
35°	922.6	911.8	914.6	902.5	901.5
37.5°	876.1	866.3	867.9	854.6	853.6
40°	843.1	833.3	834.1	820.0	819.0
42.5°	806.9	797.1	796.2	782.1	781.1
45°	746.5	736.7	733.5	720.3	718.4
47.5°	677.7	667.9	661.8	651.1	649.8
50°	627.8	618.0	612.7	603.6	600.7
52.5°	573.9	564.1	559.6	551.3	548.3
55°	489.0	481.1	477.9	469.8	467.8
57.5°	408.3	403.0	402.0	394.2	393.4
60°	359.2	356.2	356.2	349.1	349.1
62.5°	317.3	315.2	316.7	312.1	311.3
65°	262.6	260.6	263.6	261.6	261.6
67.5°	219.3	219.3	221.1	220.3	220.3
70°	195.2	195.2	196.2	196.2	196.2
72.5°	173.5	172.7	175.3	175.2	174.5
75°	141.9	141.9	141.9	142.9	142.9
77.5°	110.5	110.7	111.5	111.3	110.5
80°	89.5	90.5	90.6	89.5	89.5
82.5°	68.6	69.6	69.6	69.4	68.6
85°	36.2	38.2	40.2	40.2	40.2
87.5°	10.5	13.6	16.1	16.1	15.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)