

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: P561948

Luminaire Tested: **SQ4-PR1-0U-075D-92765-1D-UNV-STD-W-4 (3500K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561948
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 (3500K)
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 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2990.2 lumens
Efficiency: N/A
Efficacy: 93.7 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

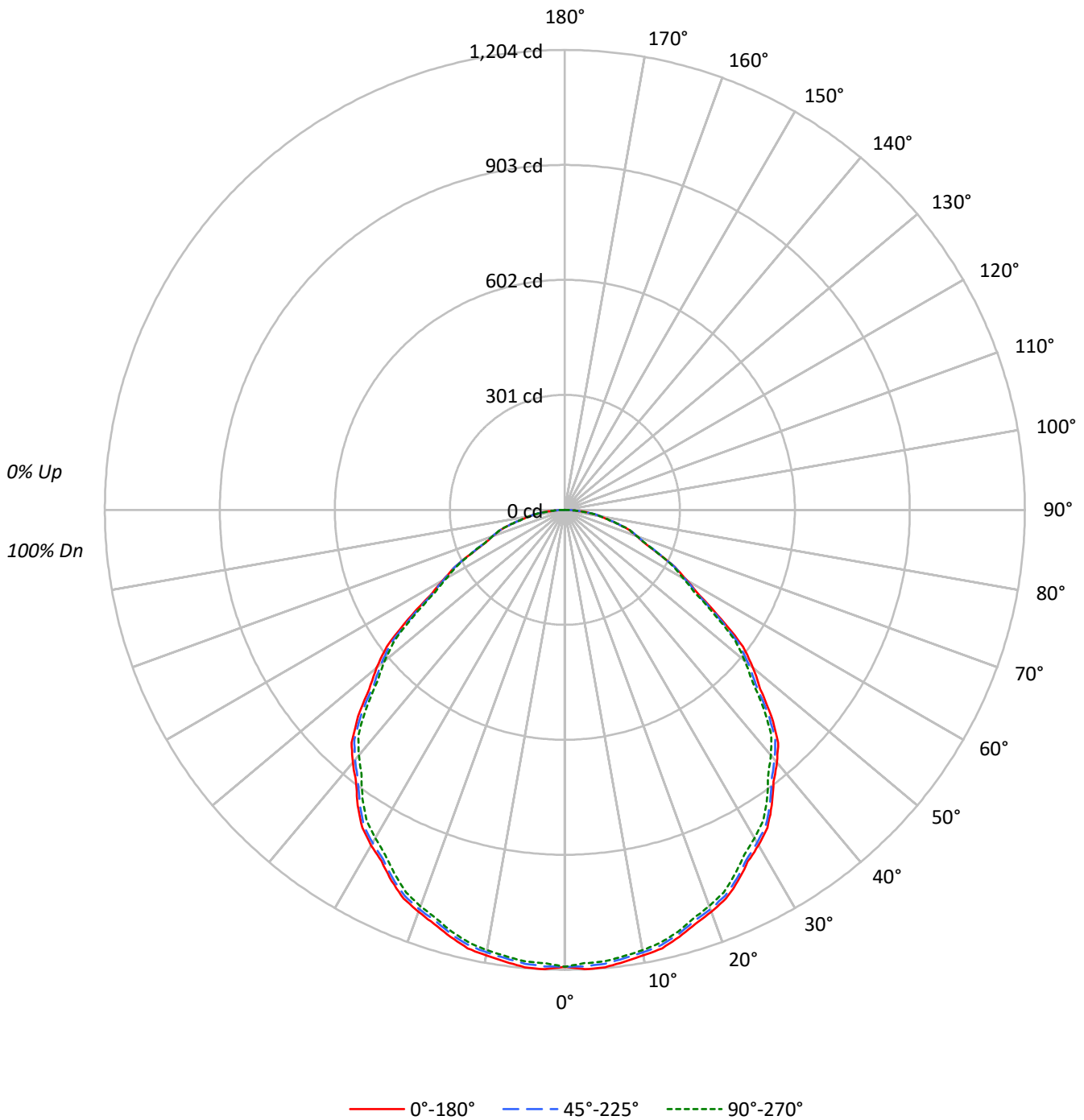
Input Watts (W): 31.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11035	11035	11035
5°	11135	11049	10992
10°	11100	11023	10965
15°	11051	10983	10923
20°	10996	10925	10843
25°	10918	10845	10719
30°	10801	10724	10569
35°	10640	10548	10397
40°	10399	10287	10100
45°	9975	9800	9598
50°	9228	9005	8829
55°	8054	7872	7707
60°	6787	6730	6597
65°	5870	5892	5849
70°	5392	5419	5419
75°	5180	5180	5215
80°	4872	4925	4872
85°	3927	4361	4361



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.1	3.8
10°-20°	323.6	10.8
20°-30°	488.1	16.3
30°-40°	581.6	19.5
40°-50°	573.4	19.2
50°-60°	438.2	14.7
60°-70°	271.2	9.1
70°-80°	154.0	5.2
80°-90°	46.9	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°	924.9	30.9
0°-40°	1506.5	50.4
0°-60°	2518.1	84.2
0°-90°	2990.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2990.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1196	1196	1196	1196	1196	
5°	1202	1189	1193	1189	1187	114
15°	1157	1145	1150	1146	1144	326
25°	1072	1059	1065	1054	1053	494
35°	945	934	936	924	923	590
45°	764	754	751	738	736	586
55°	501	493	489	481	479	449
65°	269	267	270	268	268	272
75°	145	145	145	146	146	153
85°	37	39	41	41	41	45
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1196.1	1196.1	1196.1	1196.1	1196.1
2.5°	1203.6	1193.1	1196.1	1193.5	1187.9
5°	1202.3	1189.2	1193.0	1188.9	1186.9
7.5°	1193.0	1180.1	1184.0	1179.8	1178.6
10°	1184.8	1172.7	1176.6	1172.4	1170.4
12.5°	1175.7	1162.8	1167.5	1162.5	1160.5
15°	1157.0	1144.9	1149.8	1145.6	1143.6
17.5°	1136.4	1123.5	1128.3	1123.5	1120.9
20°	1119.9	1107.8	1112.7	1105.4	1104.4
22.5°	1101.8	1089.7	1094.5	1084.9	1084.7
25°	1072.5	1059.4	1065.3	1053.9	1052.9
27.5°	1037.7	1025.6	1030.5	1018.9	1017.7
30°	1013.8	1001.7	1006.6	994.2	992.1
32.5°	986.6	975.3	979.4	967.0	965.8
35°	944.7	933.7	936.5	924.1	923.1
37.5°	897.2	887.1	888.7	875.1	874.1
40°	863.4	853.3	854.1	839.6	838.6
42.5°	826.3	816.2	815.3	800.9	799.9
45°	764.5	754.4	751.1	737.6	735.6
47.5°	694.0	683.9	677.7	666.8	665.3
50°	642.9	632.8	627.4	618.1	615.1
52.5°	587.7	577.6	573.0	564.5	561.5
55°	500.7	492.6	489.4	481.1	479.1
57.5°	418.1	412.6	411.7	403.6	402.8
60°	367.8	364.8	364.7	357.5	357.5
62.5°	324.9	322.7	324.3	319.6	318.8
65°	268.9	266.9	269.9	267.9	267.9
67.5°	224.6	224.6	226.5	225.6	225.6
70°	199.9	199.9	200.9	200.9	200.9
72.5°	177.6	176.8	179.5	179.5	178.6
75°	145.3	145.3	145.3	146.3	146.3
77.5°	113.1	113.3	114.2	113.9	113.1
80°	91.7	92.7	92.7	91.7	91.7
82.5°	70.3	71.3	71.3	71.1	70.3
85°	37.1	39.1	41.2	41.2	41.2
87.5°	10.7	13.9	16.5	16.5	15.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)