

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: P561951

Luminaire Tested: **SQ4-PR1-0U-075D-92765-1D-UNV-STD-W-4 (5000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561951
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 (5000K)
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 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

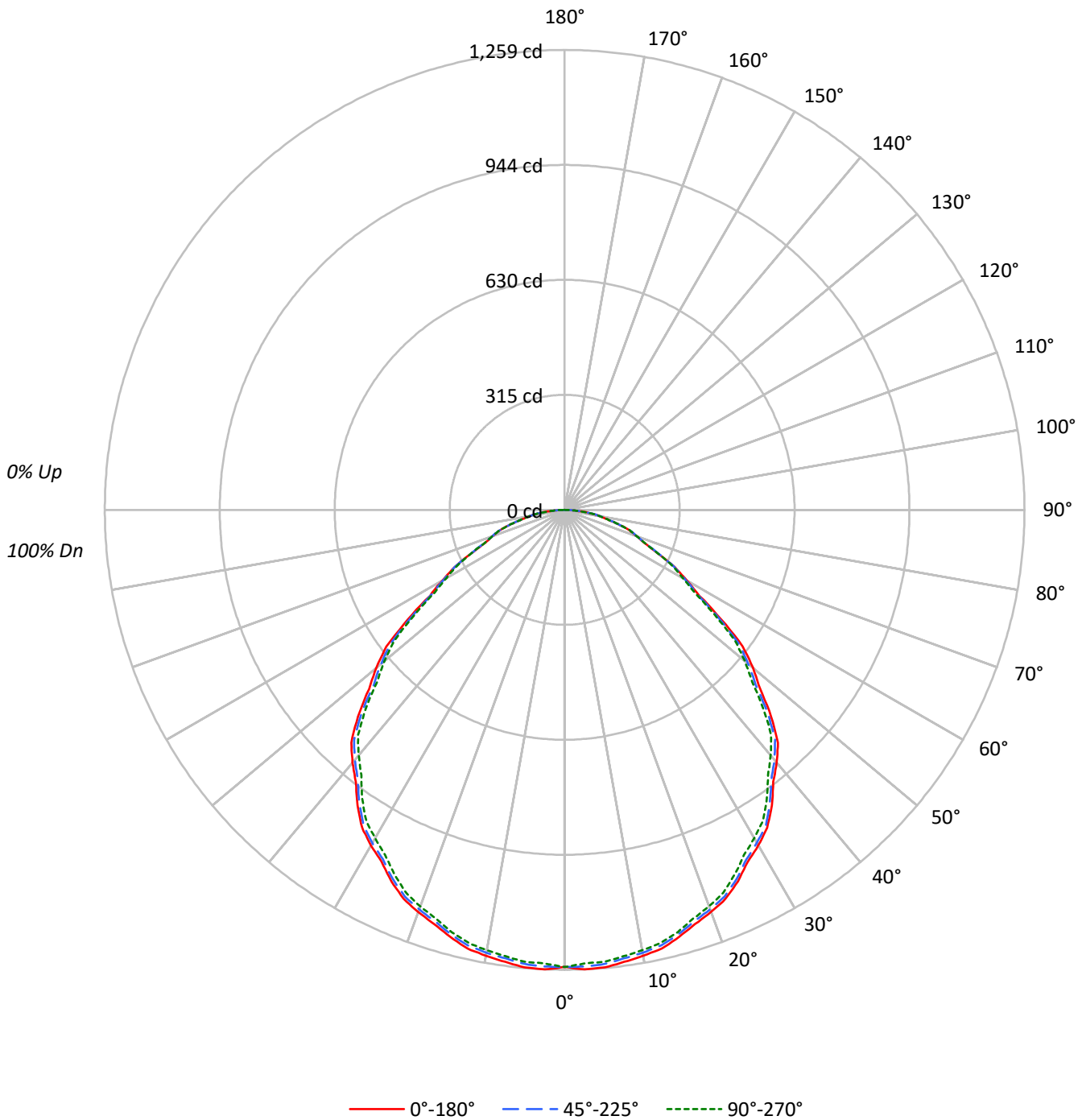
Lumens per Lamp: N/A
Luminaire Lumens: 3128.3 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 31.8
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°	11546	11546	11546
5°	11649	11559	11500
10°	11612	11532	11471
15°	11561	11490	11428
20°	11503	11430	11344
25°	11422	11346	11213
30°	11299	11218	11057
35°	11132	11034	10877
40°	10878	10761	10567
45°	10434	10252	10042
50°	9654	9422	9236
55°	8426	8236	8062
60°	7100	7041	6901
65°	6141	6165	6117
70°	5641	5670	5670
75°	5418	5418	5458
80°	5095	5154	5095
85°	4107	4563	4563



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.3	3.8
10°-20°	338.6	10.8
20°-30°	510.7	16.3
30°-40°	608.5	19.5
40°-50°	599.9	19.2
50°-60°	458.5	14.7
60°-70°	283.7	9.1
70°-80°	161.2	5.2
80°-90°	49.0	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°	967.6	30.9
0°-40°	1576.0	50.4
0°-60°	2634.4	84.2
0°-90°	3128.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3128.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1251	1251	1251	1251	1251	
5°	1258	1244	1248	1244	1242	119
15°	1210	1198	1203	1198	1196	342
25°	1122	1108	1114	1103	1102	516
35°	988	977	980	967	966	617
45°	800	789	786	772	770	613
55°	524	515	512	503	501	469
65°	281	279	282	280	280	285
75°	152	152	152	153	153	160
85°	39	41	43	43	43	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1251.4	1251.4	1251.4	1251.4	1251.4
2.5°	1259.1	1248.2	1251.4	1248.6	1242.7
5°	1257.8	1244.1	1248.1	1243.8	1241.7
7.5°	1248.1	1234.6	1238.6	1234.3	1233.0
10°	1239.5	1226.9	1230.9	1226.5	1224.4
12.5°	1230.0	1216.5	1221.4	1216.2	1214.1
15°	1210.4	1197.8	1202.9	1198.5	1196.4
17.5°	1188.8	1175.4	1180.4	1175.4	1172.7
20°	1171.6	1159.0	1164.1	1156.5	1155.4
22.5°	1152.6	1140.0	1145.1	1134.9	1134.7
25°	1122.0	1108.3	1114.5	1102.6	1101.5
27.5°	1085.6	1072.9	1078.0	1065.9	1064.7
30°	1060.6	1047.9	1053.0	1040.1	1037.9
32.5°	1032.1	1020.3	1024.6	1011.6	1010.4
35°	988.4	976.8	979.7	966.8	965.7
37.5°	938.6	928.0	929.7	915.5	914.4
40°	903.2	892.7	893.5	878.4	877.4
42.5°	864.4	853.9	853.0	837.9	836.8
45°	799.7	789.2	785.7	771.7	769.6
47.5°	726.0	715.5	709.0	697.5	696.1
50°	672.6	662.0	656.4	646.6	643.5
52.5°	614.8	604.3	599.5	590.6	587.4
55°	523.8	515.4	512.0	503.3	501.2
57.5°	437.4	431.7	430.7	422.3	421.4
60°	384.8	381.6	381.6	374.0	374.0
62.5°	339.9	337.6	339.3	334.3	333.5
65°	281.3	279.2	282.4	280.2	280.2
67.5°	235.0	235.0	236.9	236.0	236.0
70°	209.1	209.1	210.2	210.2	210.2
72.5°	185.8	185.0	187.8	187.7	186.9
75°	152.0	152.0	152.0	153.1	153.1
77.5°	118.3	118.6	119.4	119.2	118.3
80°	95.9	97.0	97.0	95.9	95.9
82.5°	73.5	74.6	74.6	74.4	73.5
85°	38.8	40.9	43.1	43.1	43.1
87.5°	11.2	14.6	17.2	17.2	16.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)