

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: P562310

Luminaire Tested: **SQ4-PW1-0U-075D-92765-1D-UNV-STD-W-4 (2700K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562310
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PW1-0U-075D-92765-1D-UNV-STD-W-4 (2700K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS
DOWNLIGHT 750 LUMENS PER FOOT
DIRECT ONLY
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

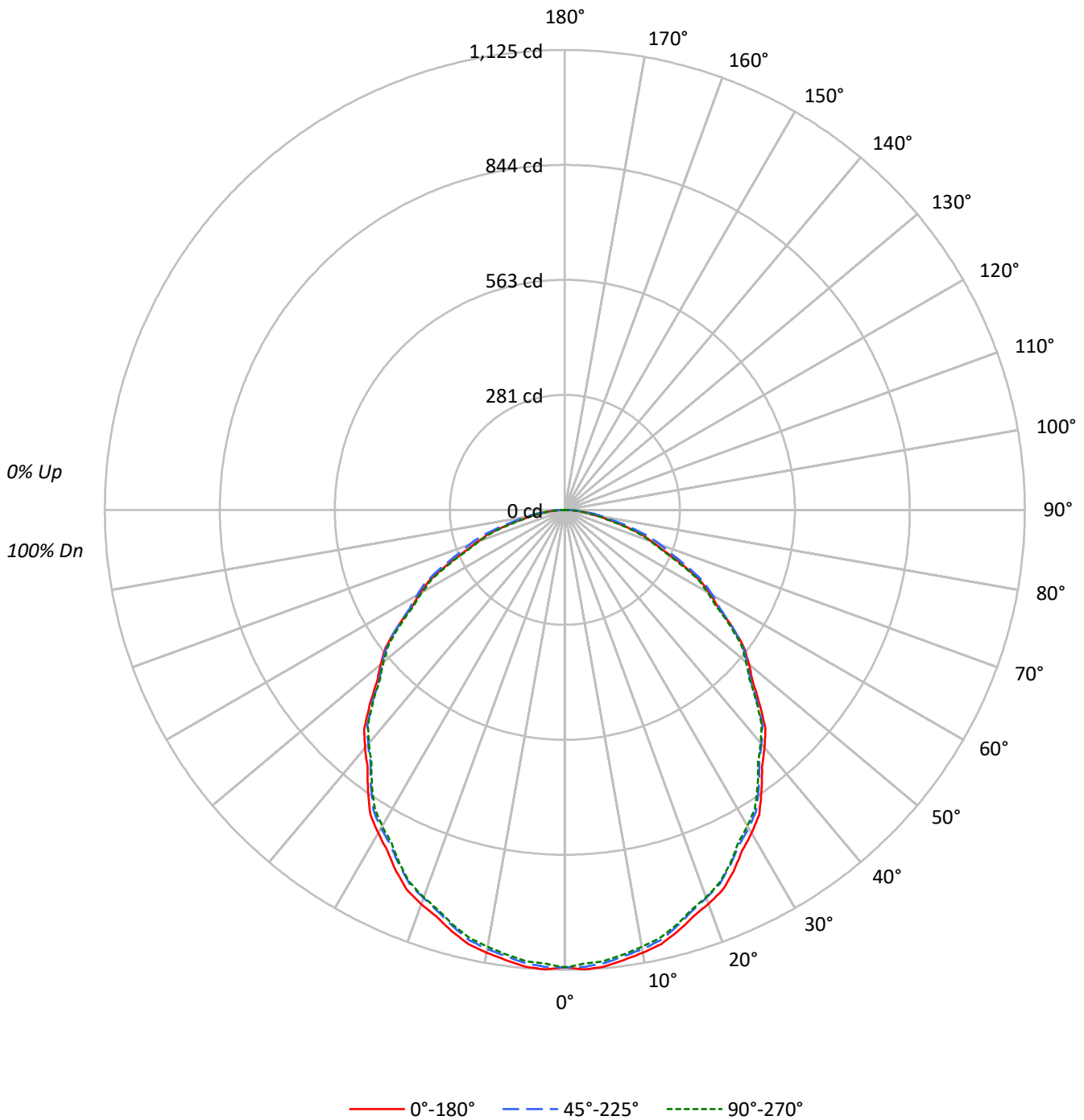
Lumens per Lamp: N/A
Luminaire Lumens: 2846.4 lumens
Efficiency: N/A
Efficacy: 89.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	76	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	31	42	35	30	41	35	30	28
10	54	41	33	28	53	40	33	28	39	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10322	10322	10322
5°	10389	10306	10261
10°	10305	10223	10167
15°	10196	10084	10045
20°	10075	9919	9901
25°	9934	9753	9723
30°	9725	9577	9514
35°	9447	9315	9259
40°	9153	9010	8975
45°	8797	8681	8643
50°	8433	8361	8305
55°	8038	8038	7912
60°	7549	7693	7422
65°	6907	7252	6735
70°	6088	6674	5929
75°	5201	5974	5058
80°	4033	5026	4086
85°	2604	3864	3440



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.3	3.7
10°-20°	297.4	10.4
20°-30°	441.2	15.5
30°-40°	516.2	18.1
40°-50°	513.9	18.1
50°-60°	443.8	15.6
60°-70°	319.4	11.2
70°-80°	167.5	5.9
80°-90°	41.5	1.5
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°	844.0	29.6
0°-40°	1360.2	47.8
0°-60°	2317.9	81.4
0°-90°	2846.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2846.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1119	1119	1119	1119	1119	
5°	1122	1109	1113	1110	1108	106
15°	1068	1054	1056	1054	1052	301
25°	976	960	958	952	955	449
35°	839	827	827	819	822	524
45°	674	668	665	663	662	520
55°	500	499	500	493	492	446
65°	316	326	332	319	308	314
75°	146	159	168	156	142	156
85°	25	32	36	34	32	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1118.8	1118.8	1118.8	1118.8	1118.8
2.5°	1125.1	1115.8	1118.8	1116.3	1110.9
5°	1121.7	1109.2	1112.8	1109.8	1107.9
7.5°	1110.3	1098.7	1101.4	1098.2	1097.1
10°	1100.0	1088.5	1091.2	1087.2	1085.2
12.5°	1088.2	1075.9	1078.5	1074.6	1073.4
15°	1067.5	1054.0	1055.7	1053.7	1051.7
17.5°	1043.5	1029.8	1030.0	1026.9	1026.5
20°	1026.1	1011.6	1010.3	1006.4	1008.4
22.5°	1007.2	992.0	990.6	985.2	987.9
25°	975.8	959.5	958.1	952.2	955.1
27.5°	939.6	923.4	923.4	915.2	918.3
30°	912.8	897.3	899.0	889.2	893.0
32.5°	884.4	870.5	871.4	861.6	865.4
35°	838.8	827.3	827.0	819.2	822.1
37.5°	792.3	782.1	780.5	776.0	776.7
40°	760.0	751.3	748.1	745.2	745.2
42.5°	726.1	718.2	715.0	712.8	712.1
45°	674.2	668.4	665.3	663.3	662.4
47.5°	623.0	617.6	614.9	613.5	612.5
50°	587.5	583.6	582.5	579.6	578.6
52.5°	552.0	549.7	548.6	544.9	543.9
55°	499.7	498.8	499.7	492.8	491.9
57.5°	445.3	446.9	450.1	440.7	438.4
60°	409.1	412.9	416.9	406.0	402.2
62.5°	372.0	378.2	383.8	371.3	365.9
65°	316.4	326.0	332.2	319.1	308.5
67.5°	262.8	274.7	282.1	268.0	256.1
70°	225.7	239.2	247.4	233.3	219.8
72.5°	193.4	208.4	215.1	201.8	188.3
75°	145.9	159.4	167.6	156.4	141.9
77.5°	103.5	116.2	123.0	113.3	101.3
80°	75.9	89.4	94.6	86.5	76.9
82.5°	53.8	65.0	68.6	63.7	57.2
85°	24.6	32.4	36.5	34.5	32.5
87.5°	6.3	11.7	15.0	15.0	15.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)