

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: P564178

Luminaire Tested: **SQ4-PR1-0U-075D-935-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564178
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-935-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

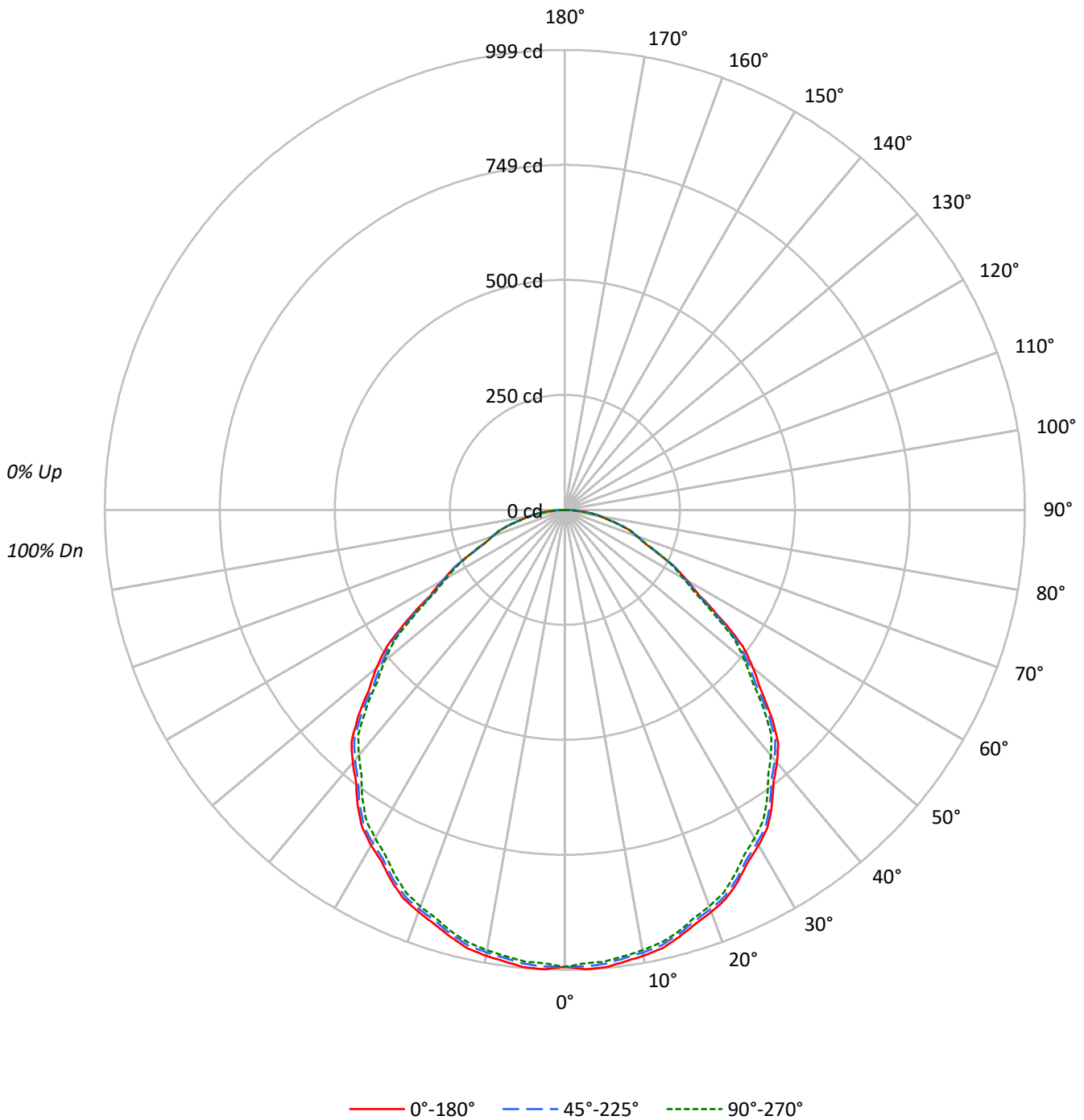
Lumens per Lamp: N/A
Luminaire Lumens: 2481.7 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 24
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	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°	9159	9159	9159
5°	9241	9170	9123
10°	9212	9148	9100
15°	9172	9114	9065
20°	9125	9066	8999
25°	9061	9000	8896
30°	8964	8900	8772
35°	8831	8754	8629
40°	8629	8537	8383
45°	8278	8133	7966
50°	7658	7474	7327
55°	6685	6532	6396
60°	5634	5586	5475
65°	4873	4890	4853
70°	4475	4497	4497
75°	4299	4299	4328
80°	4043	4091	4043
85°	3260	3620	3620



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.9	3.8
10°-20°	268.6	10.8
20°-30°	405.1	16.3
30°-40°	482.7	19.5
40°-50°	475.9	19.2
50°-60°	363.7	14.7
60°-70°	225.1	9.1
70°-80°	127.8	5.2
80°-90°	38.9	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°	767.6	30.9
0°-40°	1250.3	50.4
0°-60°	2089.9	84.2
0°-90°	2481.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2481.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	993	993	993	993	993	
5°	998	987	990	987	985	95
15°	960	950	954	951	949	271
25°	890	879	884	875	874	410
35°	784	775	777	767	766	489
45°	634	626	623	612	610	486
55°	416	409	406	399	398	372
65°	223	222	224	222	222	226
75°	121	121	121	121	121	127
85°	31	32	34	34	34	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	992.7	992.7	992.7	992.7	992.7
2.5°	998.9	990.2	992.7	990.5	985.9
5°	997.8	987.0	990.1	986.7	985.0
7.5°	990.1	979.4	982.6	979.2	978.2
10°	983.3	973.3	976.5	973.0	971.3
12.5°	975.8	965.1	968.9	964.8	963.1
15°	960.2	950.2	954.2	950.8	949.1
17.5°	943.1	932.4	936.4	932.5	930.3
20°	929.4	919.4	923.4	917.4	916.6
22.5°	914.4	904.4	908.4	900.4	900.2
25°	890.1	879.2	884.1	874.7	873.9
27.5°	861.2	851.2	855.2	845.6	844.6
30°	841.4	831.3	835.4	825.1	823.4
32.5°	818.8	809.4	812.8	802.5	801.5
35°	784.1	774.9	777.2	767.0	766.1
37.5°	744.6	736.2	737.6	726.3	725.4
40°	716.5	708.2	708.8	696.8	696.0
42.5°	685.7	677.4	676.7	664.7	663.9
45°	634.4	626.1	623.3	612.2	610.5
47.5°	576.0	567.6	562.4	553.4	552.2
50°	533.5	525.2	520.7	513.0	510.5
52.5°	487.7	479.4	475.6	468.5	466.0
55°	415.6	408.9	406.1	399.3	397.6
57.5°	347.0	342.5	341.7	335.0	334.3
60°	305.3	302.7	302.7	296.7	296.7
62.5°	269.7	267.8	269.2	265.2	264.6
65°	223.2	221.5	224.0	222.3	222.3
67.5°	186.4	186.4	187.9	187.3	187.3
70°	165.9	165.9	166.7	166.7	166.7
72.5°	147.4	146.7	148.9	148.9	148.3
75°	120.6	120.6	120.6	121.4	121.4
77.5°	93.9	94.1	94.7	94.6	93.9
80°	76.1	76.9	77.0	76.1	76.1
82.5°	58.3	59.1	59.2	59.0	58.3
85°	30.8	32.5	34.2	34.2	34.2
87.5°	8.9	11.6	13.7	13.7	13.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)