

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: P563467

Luminaire Tested: **SQ4-PP3-0U-050D-830-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563467
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-0U-050D-830-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

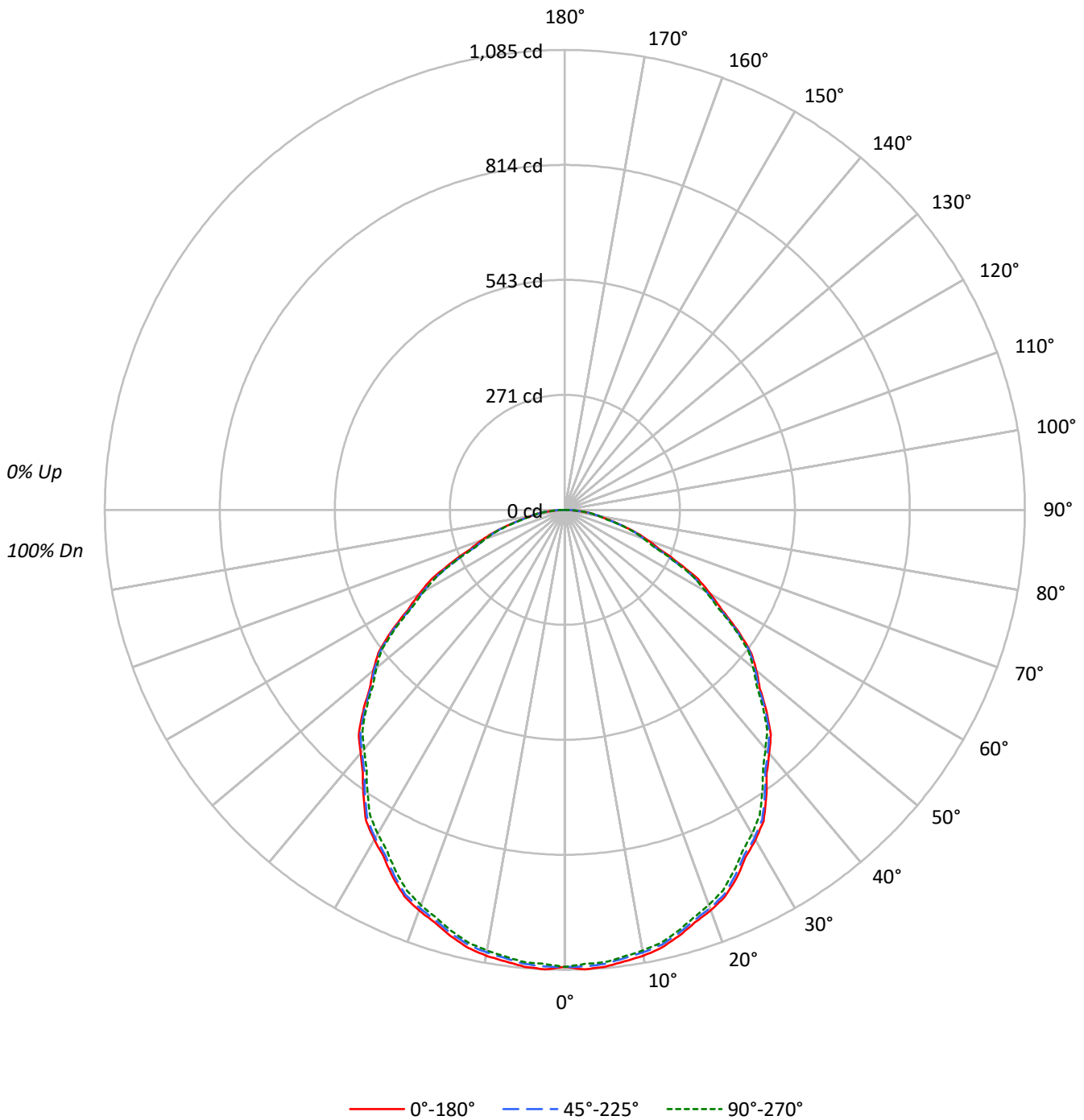
Lumens per Lamp: N/A
Luminaire Lumens: 2759.9 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Direct

Input Watts (W): 26.7
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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85				85
2	100	92	86	80	97	90	84	79	87	82	77	84	79	76	81	77	74	72				72
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61				61
4	84	72	64	57	82	71	63	57	69	62	56	66	60	56	64	59	55	53				53
5	77	65	56	50	75	64	56	49	62	54	49	60	53	48	58	52	48	46				46
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42	40				40
7	66	53	45	39	65	52	44	39	51	44	38	49	43	38	48	42	38	36				36
8	62	49	40	35	60	48	40	34	47	39	34	45	39	34	44	38	34	32				32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29				29
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26				26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6632	6632	6632
5°	6681	6640	6617
10°	6670	6623	6594
15°	6626	6590	6554
20°	6582	6545	6495
25°	6504	6459	6394
30°	6384	6349	6269
35°	6216	6174	6096
40°	6018	5979	5911
45°	5853	5812	5755
50°	5643	5607	5553
55°	5351	5280	5240
60°	4871	4731	4709
65°	4292	4113	4098
70°	3705	3552	3552
75°	3189	3144	3099
80°	2812	2844	2777
85°	2202	2399	2399



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.0	3.7
10°-20°	291.2	10.5
20°-30°	436.1	15.8
30°-40°	511.5	18.5
40°-50°	513.1	18.6
50°-60°	437.7	15.9
60°-70°	285.5	10.3
70°-80°	143.2	5.2
80°-90°	39.6	1.4
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°	829.2	30.0
0°-40°	1340.7	48.6
0°-60°	2291.6	83.0
0°-90°	2759.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2759.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1078	1078	1078	1078	1078	
5°	1082	1072	1076	1072	1072	103
15°	1040	1030	1035	1031	1029	294
25°	958	947	952	943	942	441
35°	828	820	822	813	812	517
45°	673	668	668	662	662	518
55°	499	497	492	490	489	443
65°	295	289	283	281	282	294
75°	134	134	132	131	130	146
85°	31	34	34	34	34	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1078.3	1078.3	1078.3	1078.3	1078.3
2.5°	1085.1	1076.3	1078.3	1076.7	1072.3
5°	1082.1	1072.0	1075.5	1071.7	1071.7
7.5°	1074.7	1063.7	1067.2	1063.4	1063.2
10°	1067.9	1056.9	1060.4	1056.6	1055.7
12.5°	1058.1	1047.0	1051.3	1046.8	1046.6
15°	1040.5	1030.4	1034.9	1031.0	1029.2
17.5°	1020.7	1009.6	1015.0	1009.7	1009.0
20°	1005.6	994.5	999.9	992.3	992.3
22.5°	987.4	976.3	982.5	972.7	972.7
25°	958.3	947.2	951.7	943.2	942.2
27.5°	923.7	912.8	917.5	907.8	907.7
30°	898.8	888.6	894.0	883.6	882.7
32.5°	871.6	862.1	866.1	855.7	854.7
35°	827.9	819.6	822.2	812.8	811.8
37.5°	782.0	773.5	776.5	768.3	768.0
40°	749.5	743.9	744.7	738.1	736.2
42.5°	719.2	712.9	713.7	707.1	706.7
45°	672.9	668.3	668.2	661.6	661.6
47.5°	623.8	620.2	619.2	613.7	613.5
50°	589.7	587.0	586.0	581.2	580.3
52.5°	554.2	552.9	549.7	545.7	545.5
55°	499.0	497.2	492.4	489.5	488.6
57.5°	439.1	435.4	430.0	425.9	426.6
60°	396.0	392.3	384.6	382.8	382.8
62.5°	354.4	350.0	342.3	339.7	341.2
65°	294.9	289.3	282.6	280.7	281.6
67.5°	240.8	235.8	228.5	228.5	227.8
70°	206.0	203.3	197.5	197.5	197.5
72.5°	175.0	173.7	169.5	169.5	168.8
75°	134.2	134.2	132.3	131.3	130.4
77.5°	100.6	100.9	100.0	99.0	97.3
80°	79.4	81.2	80.3	79.4	78.4
82.5°	59.7	61.6	61.4	59.7	59.5
85°	31.2	34.0	34.0	34.0	34.0
87.5°	8.3	11.3	12.1	12.1	12.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)