

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: P564819

Luminaire Tested: **SQ4-PW1-0U-050D-840-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564819
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-050D-840-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
DIRECT ONLY
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

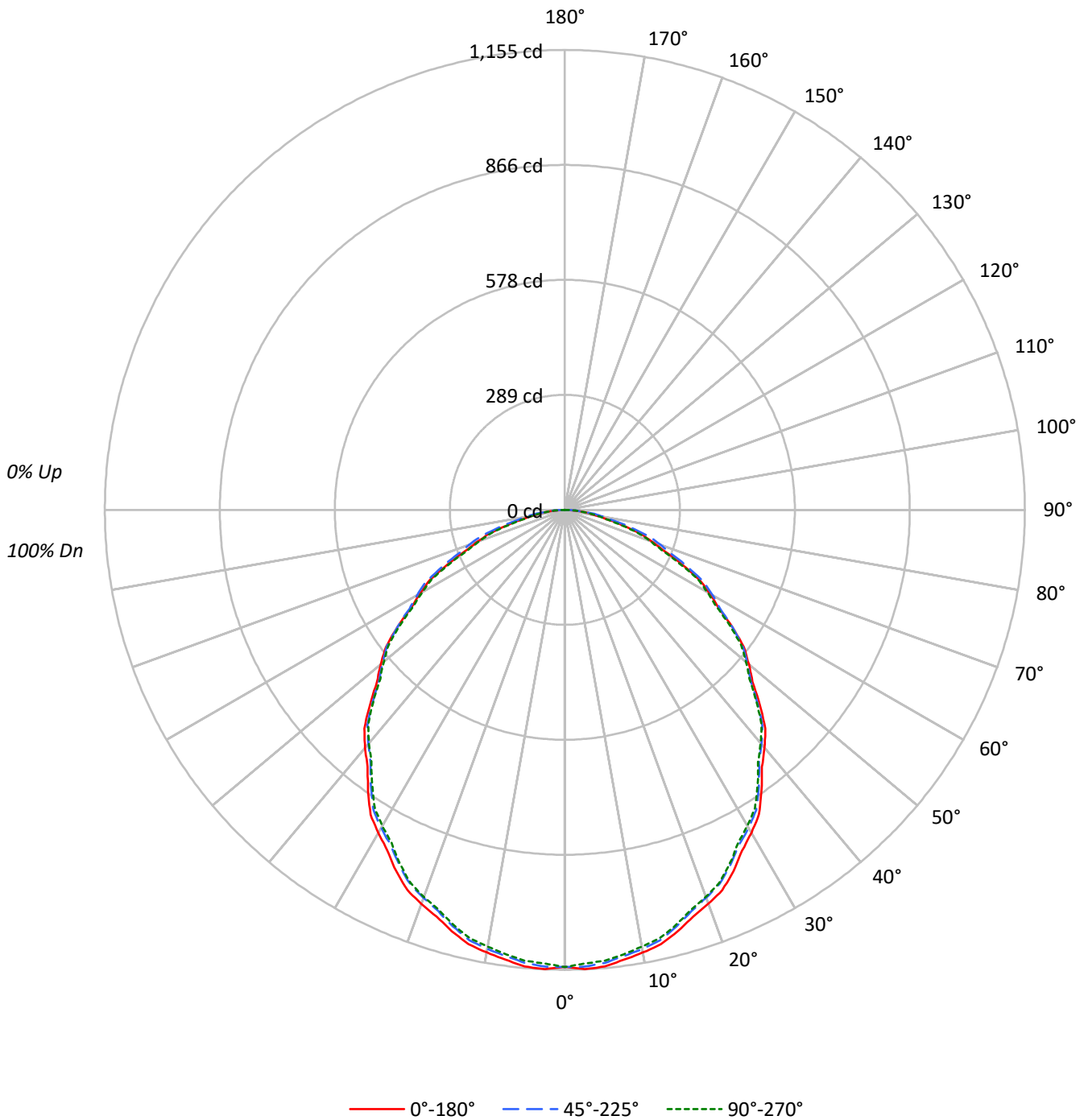
Lumens per Lamp: N/A
Luminaire Lumens: 2921.2 lumens
Efficiency: N/A
Efficacy: 109.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Direct

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	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°	7062	7062	7062
5°	7108	7052	7020
10°	7051	6994	6956
15°	6976	6899	6873
20°	6893	6787	6773
25°	6797	6673	6652
30°	6653	6553	6509
35°	6464	6373	6335
40°	6262	6165	6141
45°	6019	5939	5913
50°	5769	5720	5682
55°	5500	5500	5413
60°	5164	5264	5077
65°	4726	4961	4608
70°	4167	4566	4057
75°	3558	4088	3463
80°	2759	3439	2795
85°	1785	2639	2357



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.1	3.7
10°-20°	305.2	10.4
20°-30°	452.8	15.5
30°-40°	529.8	18.1
40°-50°	527.4	18.1
50°-60°	455.5	15.6
60°-70°	327.8	11.2
70°-80°	171.9	5.9
80°-90°	42.6	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°	866.1	29.6
0°-40°	1395.9	47.8
0°-60°	2378.8	81.4
0°-90°	2921.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2921.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1148	1148	1148	1148	1148	
5°	1151	1138	1142	1139	1137	109
15°	1096	1082	1083	1081	1079	309
25°	1002	985	983	977	980	460
35°	861	849	849	841	844	538
45°	692	686	683	681	680	534
55°	513	512	513	506	505	458
65°	325	335	341	328	317	322
75°	150	164	172	160	146	160
85°	25	33	37	35	33	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1148.1	1148.1	1148.1	1148.1	1148.1
2.5°	1154.6	1145.1	1148.1	1145.6	1140.0
5°	1151.2	1138.3	1142.1	1139.0	1137.0
7.5°	1139.4	1127.6	1130.3	1127.1	1125.9
10°	1128.9	1117.1	1119.8	1115.7	1113.7
12.5°	1116.8	1104.1	1106.9	1102.8	1101.6
15°	1095.5	1081.7	1083.4	1081.3	1079.4
17.5°	1070.9	1056.8	1057.1	1053.9	1053.5
20°	1053.1	1038.2	1036.9	1032.9	1034.8
22.5°	1033.6	1018.0	1016.6	1011.0	1013.8
25°	1001.5	984.6	983.3	977.3	980.2
27.5°	964.2	947.6	947.6	939.2	942.4
30°	936.7	920.9	922.6	912.5	916.5
32.5°	907.6	893.3	894.2	884.2	888.2
35°	860.9	849.0	848.7	840.7	843.7
37.5°	813.1	802.6	801.0	796.3	797.1
40°	779.9	771.0	767.8	764.8	764.8
42.5°	745.1	737.0	733.8	731.6	730.8
45°	691.9	686.0	682.8	680.8	679.8
47.5°	639.3	633.8	631.0	629.6	628.6
50°	602.9	598.9	597.8	594.8	593.8
52.5°	566.5	564.1	563.0	559.2	558.2
55°	512.9	511.9	512.9	505.8	504.8
57.5°	457.0	458.6	461.9	452.3	449.9
60°	419.8	423.8	427.9	416.7	412.7
62.5°	381.8	388.1	393.9	381.0	375.5
65°	324.7	334.6	340.9	327.5	316.6
67.5°	269.7	282.0	289.5	275.1	262.8
70°	231.7	245.5	253.9	239.4	225.6
72.5°	198.5	213.9	220.7	207.1	193.2
75°	149.7	163.6	172.0	160.5	145.7
77.5°	106.2	119.3	126.2	116.3	104.0
80°	77.9	91.7	97.1	88.8	78.9
82.5°	55.2	66.7	70.4	65.4	58.7
85°	25.3	33.2	37.4	35.4	33.4
87.5°	6.5	12.0	15.4	15.4	16.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)