

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: P564815

Luminaire Tested: **SQ4-PW1-0U-050D-835-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564815
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-835-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

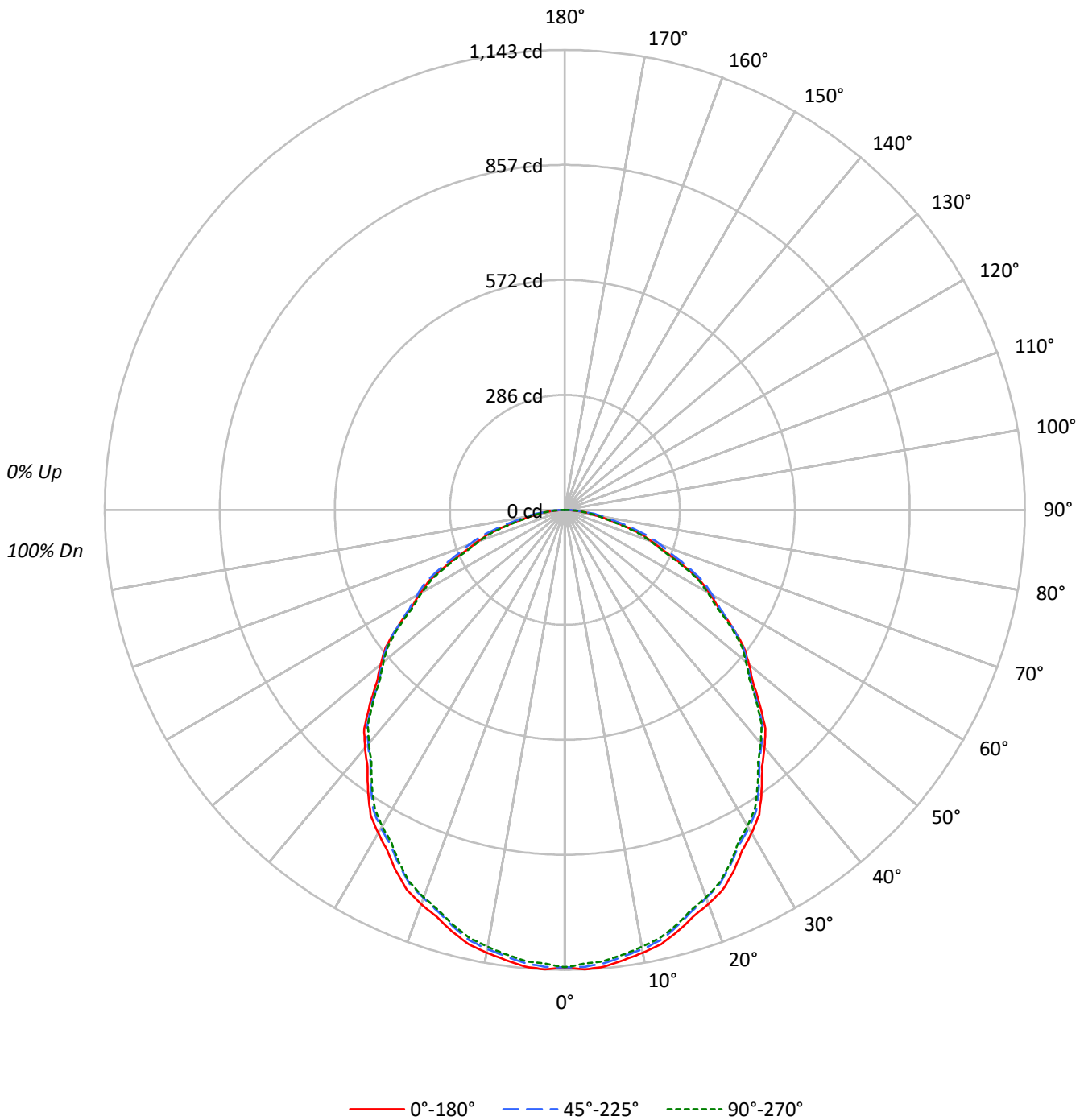
Lumens per Lamp: N/A
Luminaire Lumens: 2892.0 lumens
Efficiency: N/A
Efficacy: 108.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Direct

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°	6992	6992	6992
5°	7037	6981	6950
10°	6981	6925	6887
15°	6906	6830	6805
20°	6824	6719	6706
25°	6729	6607	6586
30°	6587	6487	6445
35°	6400	6310	6272
40°	6200	6103	6079
45°	5959	5880	5854
50°	5712	5664	5626
55°	5445	5445	5359
60°	5113	5211	5026
65°	4679	4912	4563
70°	4124	4521	4016
75°	3522	4047	3427
80°	2731	3404	2766
85°	1764	2618	2329



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.0	3.7
10°-20°	302.2	10.4
20°-30°	448.3	15.5
30°-40°	524.5	18.1
40°-50°	522.2	18.1
50°-60°	450.9	15.6
60°-70°	324.6	11.2
70°-80°	170.2	5.9
80°-90°	42.2	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°	857.5	29.7
0°-40°	1382.0	47.8
0°-60°	2355.1	81.4
0°-90°	2892.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2892.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1137	1137	1137	1137	1137	
5°	1140	1127	1131	1128	1126	108
15°	1085	1071	1073	1071	1069	306
25°	992	975	974	968	970	456
35°	852	840	840	832	835	533
45°	685	679	676	674	673	529
55°	508	507	508	501	500	453
65°	322	331	338	324	314	319
75°	148	162	170	159	144	159
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°	1136.7	1136.7	1136.7	1136.7	1136.7
2.5°	1143.1	1133.7	1136.7	1134.2	1128.7
5°	1139.7	1127.0	1130.7	1127.6	1125.7
7.5°	1128.1	1116.3	1119.1	1115.8	1114.7
10°	1117.7	1105.9	1108.7	1104.6	1102.7
12.5°	1105.7	1093.1	1095.8	1091.8	1090.6
15°	1084.6	1070.9	1072.6	1070.6	1068.6
17.5°	1060.2	1046.3	1046.6	1043.4	1043.0
20°	1042.6	1027.9	1026.5	1022.6	1024.5
22.5°	1023.3	1007.9	1006.5	1001.0	1003.7
25°	991.5	974.8	973.5	967.5	970.5
27.5°	954.6	938.2	938.2	929.9	933.0
30°	927.4	911.7	913.4	903.4	907.4
32.5°	898.5	884.4	885.3	875.4	879.3
35°	852.3	840.5	840.3	832.3	835.3
37.5°	805.0	794.6	793.0	788.4	789.2
40°	772.2	763.3	760.1	757.1	757.1
42.5°	737.7	729.7	726.5	724.3	723.5
45°	685.0	679.2	676.0	674.0	673.0
47.5°	632.9	627.5	624.7	623.3	622.3
50°	596.9	593.0	591.9	588.9	587.9
52.5°	560.8	558.5	557.4	553.6	552.6
55°	507.8	506.8	507.8	500.7	499.7
57.5°	452.5	454.0	457.3	447.8	445.5
60°	415.6	419.5	423.6	412.5	408.6
62.5°	378.0	384.2	390.0	377.2	371.8
65°	321.5	331.3	337.5	324.2	313.5
67.5°	267.0	279.1	286.6	272.3	260.2
70°	229.3	243.1	251.4	237.0	223.3
72.5°	196.5	211.8	218.5	205.0	191.3
75°	148.2	161.9	170.3	158.9	144.2
77.5°	105.2	118.1	125.0	115.1	103.0
80°	77.1	90.8	96.1	87.9	78.1
82.5°	54.7	66.0	69.7	64.7	58.1
85°	25.0	32.9	37.1	35.0	33.0
87.5°	6.4	11.9	15.2	15.2	16.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)