

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: P564220

Luminaire Tested: **SQ4-PR1-0U-125D-840-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564220
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-125D-840-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
DIRECT ONLY
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

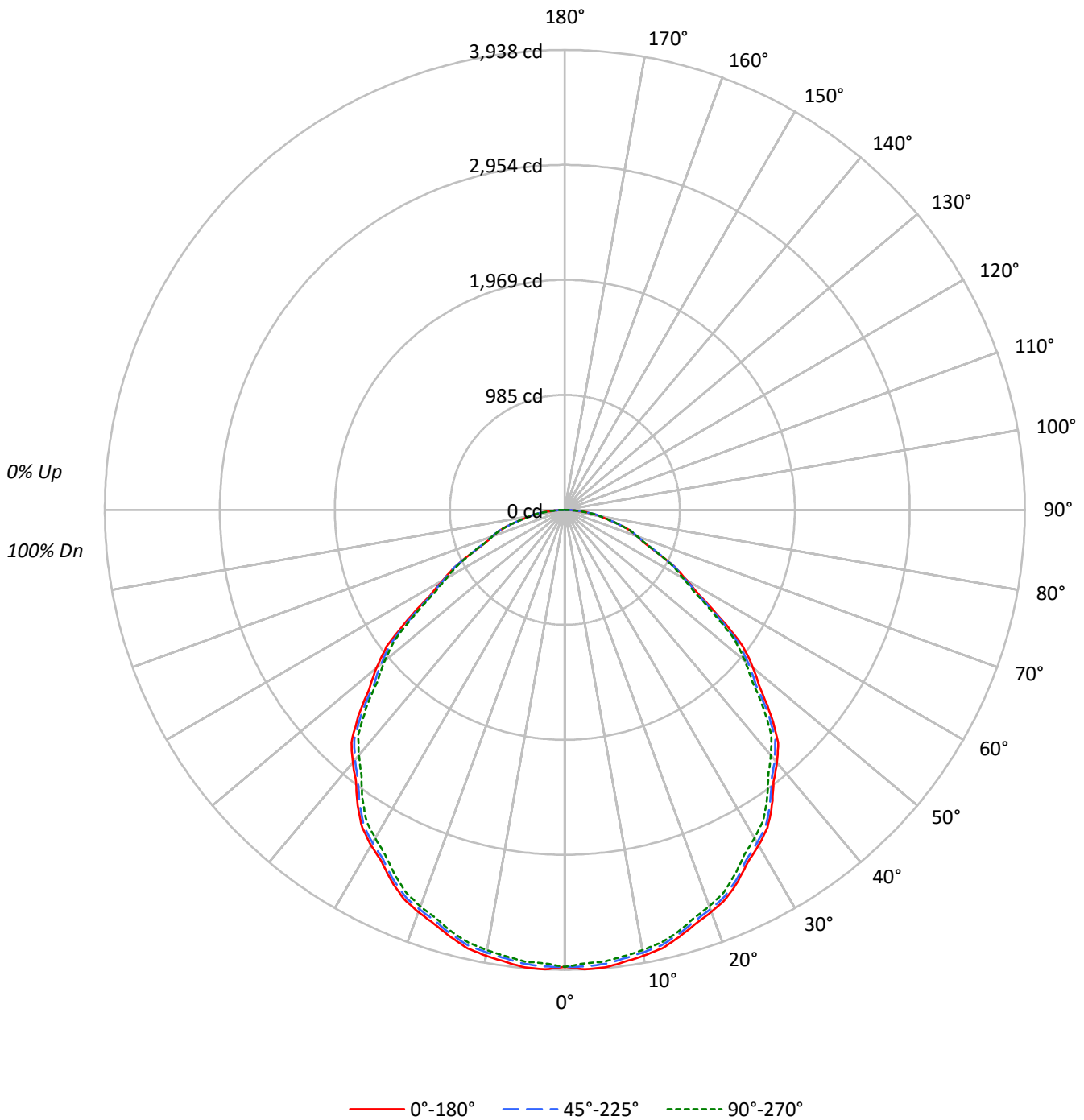
Lumens per Lamp: N/A
Luminaire Lumens: 9783.1 lumens
Efficiency: N/A
Efficacy: 107.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Direct

Input Watts (W): 91.1
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	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85				85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72				72
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62				62
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	54				54
5	78	66	57	51	76	65	57	50	63	55	50	61	54	49	59	53	49	47				47
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43	41				41
7	67	54	46	40	65	53	45	39	52	44	39	50	44	39	49	43	39	37				37
8	63	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	33				33
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30				30
10	55	42	34	29	54	41	34	29	40	34	29	40	33	29	39	33	29	27				27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18053	18053	18053
5°	18215	18075	17982
10°	18158	18032	17937
15°	18078	17965	17869
20°	17987	17871	17739
25°	17860	17740	17535
30°	17668	17542	17291
35°	17407	17255	17008
40°	17010	16827	16523
45°	16317	16031	15701
50°	15095	14732	14442
55°	13176	12877	12606
60°	11103	11009	10791
65°	9603	9640	9566
70°	8820	8866	8866
75°	8472	8472	8530
80°	7970	8060	7970
85°	6420	7135	7135



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	370.1	3.8
10°-20°	1058.8	10.8
20°-30°	1597.0	16.3
30°-40°	1902.9	19.5
40°-50°	1876.1	19.2
50°-60°	1433.8	14.7
60°-70°	887.3	9.1
70°-80°	504.0	5.2
80°-90°	153.3	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°	3025.9	30.9
0°-40°	4928.8	50.4
0°-60°	8238.6	84.2
0°-90°	9783.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9783.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3913	3913	3913	3913	3913	
5°	3934	3891	3903	3890	3883	373
15°	3785	3746	3762	3748	3742	1068
25°	3509	3466	3485	3448	3445	1615
35°	3091	3055	3064	3024	3020	1929
45°	2501	2468	2457	2413	2407	1916
55°	1638	1612	1601	1574	1567	1468
65°	880	873	883	876	876	891
75°	475	475	475	479	479	502
85°	121	128	135	135	135	146
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3913.4	3913.4	3913.4	3913.4	3913.4
2.5°	3937.7	3903.4	3913.4	3904.9	3886.5
5°	3933.6	3890.8	3903.3	3889.7	3883.1
7.5°	3903.3	3861.1	3873.6	3860.1	3856.1
10°	3876.3	3836.8	3849.4	3835.7	3829.1
12.5°	3846.7	3804.5	3819.7	3803.4	3796.8
15°	3785.3	3745.8	3761.7	3748.1	3741.5
17.5°	3717.9	3675.7	3691.6	3675.9	3667.4
20°	3664.0	3624.4	3640.4	3616.7	3613.4
22.5°	3604.7	3565.1	3581.1	3549.4	3548.7
25°	3508.9	3466.1	3485.3	3448.2	3444.9
27.5°	3395.0	3355.4	3371.4	3333.6	3329.6
30°	3316.8	3277.2	3293.2	3252.6	3246.0
32.5°	3227.8	3190.9	3204.2	3163.7	3159.7
35°	3091.0	3054.7	3064.0	3023.5	3020.2
37.5°	2935.2	2902.3	2907.6	2863.0	2859.7
40°	2824.7	2791.7	2794.3	2747.1	2743.8
42.5°	2703.3	2670.4	2667.6	2620.3	2617.0
45°	2501.1	2468.1	2457.3	2413.3	2406.7
47.5°	2270.5	2237.6	2217.3	2181.4	2176.8
50°	2103.3	2070.4	2052.8	2022.2	2012.3
52.5°	1922.7	1889.7	1874.8	1846.9	1837.0
55°	1638.2	1611.8	1601.1	1574.0	1567.4
57.5°	1367.8	1350.0	1346.9	1320.6	1318.0
60°	1203.4	1193.5	1193.2	1169.6	1169.6
62.5°	1063.1	1055.9	1061.1	1045.5	1042.9
65°	879.8	873.2	883.1	876.4	876.4
67.5°	734.8	734.8	740.9	738.2	738.2
70°	653.9	653.9	657.3	657.3	657.3
72.5°	581.1	578.5	587.2	587.1	584.5
75°	475.3	475.3	475.3	478.6	478.6
77.5°	370.1	370.8	373.5	372.7	370.1
80°	300.0	303.3	303.4	300.0	300.0
82.5°	229.9	233.2	233.3	232.5	229.9
85°	121.3	127.9	134.8	134.8	134.8
87.5°	35.1	45.6	53.9	53.9	51.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)