

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: P564892

Luminaire Tested: **SQ4-PW1-0U-125D-840-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564892
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-125D-840-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
DIRECT ONLY
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

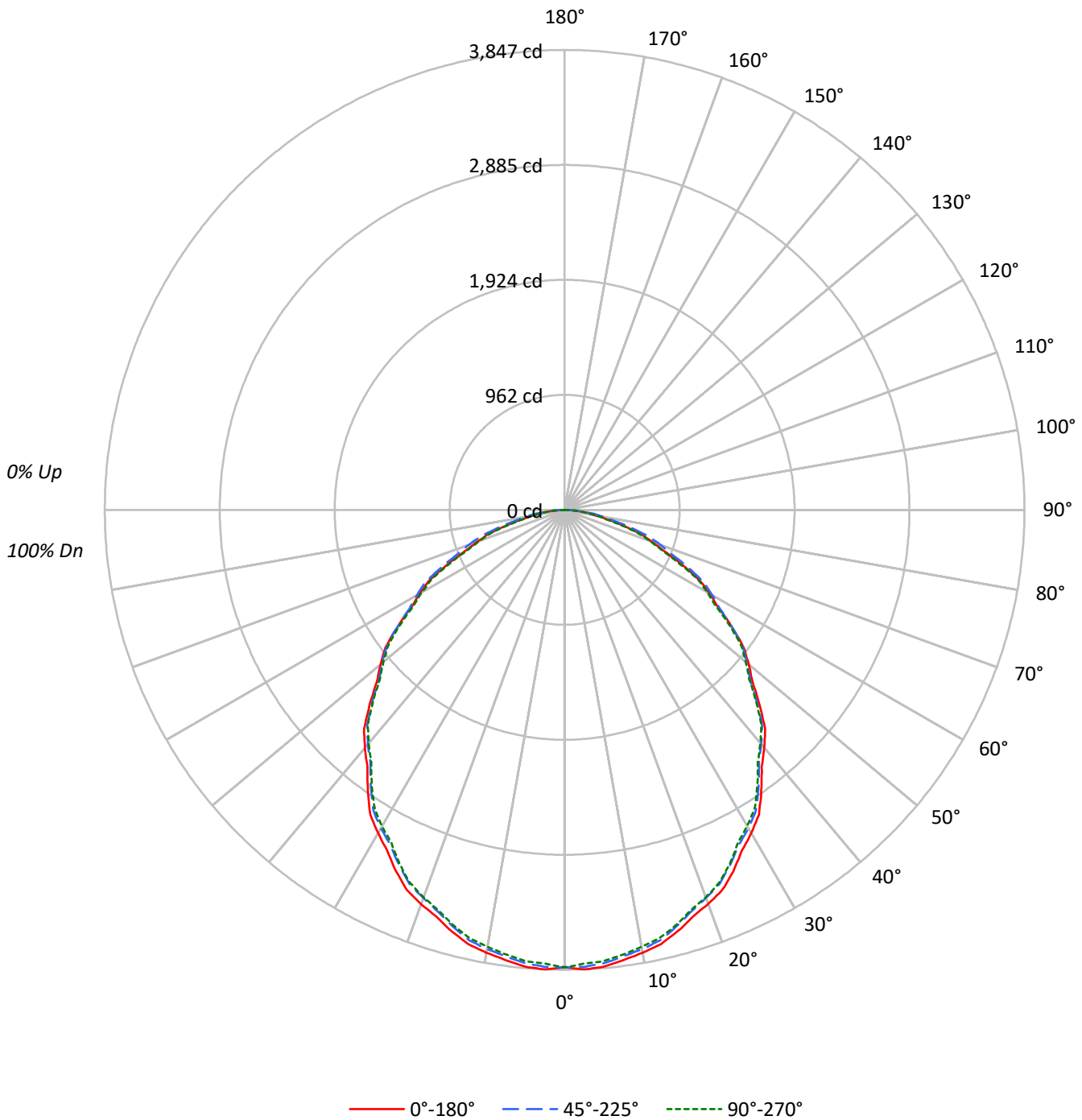
Lumens per Lamp: N/A
Luminaire Lumens: 9733.8 lumens
Efficiency: N/A
Efficacy: 106.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Direct

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	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°	17649	17649	17649
5°	17763	17623	17544
10°	17621	17479	17384
15°	17434	17241	17177
20°	17226	16961	16928
25°	16985	16677	16625
30°	16626	16375	16267
35°	16154	15927	15831
40°	15650	15407	15346
45°	15042	14843	14777
50°	14418	14297	14200
55°	13745	13745	13528
60°	12907	13155	12689
65°	11811	12399	11516
70°	10411	11412	10139
75°	8892	10213	8652
80°	6894	8597	6984
85°	4462	6600	5886



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	360.3	3.7
10°-20°	1017.1	10.4
20°-30°	1508.7	15.5
30°-40°	1765.3	18.1
40°-50°	1757.5	18.1
50°-60°	1517.6	15.6
60°-70°	1092.4	11.2
70°-80°	572.9	5.9
80°-90°	142.0	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°	2886.1	29.6
0°-40°	4651.4	47.8
0°-60°	7926.5	81.4
0°-90°	9733.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9733.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3826	3826	3826	3826	3826	
5°	3836	3793	3806	3795	3789	363
15°	3650	3604	3610	3603	3597	1029
25°	3337	3281	3276	3256	3266	1534
35°	2868	2829	2828	2801	2811	1793
45°	2306	2286	2275	2268	2265	1779
55°	1709	1706	1709	1685	1682	1525
65°	1082	1115	1136	1091	1055	1072
75°	499	545	573	535	485	535
85°	84	111	125	118	111	114
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3825.8	3825.8	3825.8	3825.8	3825.8
2.5°	3847.4	3815.7	3825.8	3817.3	3798.8
5°	3835.9	3793.1	3805.6	3795.3	3788.7
7.5°	3796.8	3757.3	3766.5	3755.6	3751.6
10°	3761.7	3722.2	3731.4	3717.8	3711.2
12.5°	3721.3	3679.1	3688.3	3674.7	3670.7
15°	3650.5	3604.4	3610.1	3603.2	3596.6
17.5°	3568.3	3521.5	3522.4	3511.6	3510.3
20°	3508.9	3459.5	3455.0	3441.7	3448.3
22.5°	3444.2	3392.1	3387.6	3368.9	3378.2
25°	3337.0	3281.0	3276.4	3256.4	3266.2
27.5°	3213.0	3157.6	3157.7	3129.6	3140.2
30°	3121.3	3068.6	3074.1	3040.7	3053.9
32.5°	3024.2	2976.8	2979.7	2946.3	2959.5
35°	2868.5	2828.9	2828.1	2801.3	2811.2
37.5°	2709.4	2674.5	2669.0	2653.5	2656.1
40°	2598.8	2569.2	2558.4	2548.3	2548.3
42.5°	2482.9	2455.9	2445.1	2437.7	2435.0
45°	2305.6	2285.8	2275.2	2268.4	2265.1
47.5°	2130.3	2111.9	2102.7	2097.9	2094.6
50°	2009.0	1995.8	1992.1	1981.9	1978.6
52.5°	1887.6	1879.7	1876.2	1863.3	1860.0
55°	1709.0	1705.7	1709.0	1685.3	1682.0
57.5°	1522.9	1528.2	1539.1	1507.2	1499.3
60°	1398.9	1412.0	1425.8	1388.4	1375.3
62.5°	1272.1	1293.2	1312.6	1269.7	1251.2
65°	1082.0	1115.0	1135.9	1091.3	1055.0
67.5°	898.6	939.5	964.7	916.6	875.7
70°	771.9	818.0	846.1	797.8	751.7
72.5°	661.3	712.8	735.5	690.0	643.8
75°	498.9	545.0	573.0	534.8	485.4
77.5°	353.9	397.4	420.7	387.4	346.5
80°	259.5	305.7	323.6	295.9	262.9
82.5°	184.0	222.3	234.6	217.9	195.5
85°	84.3	110.6	124.7	117.8	111.2
87.5°	21.6	40.0	51.2	51.3	53.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)