

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: P563540

Luminaire Tested: **SQ4-PP3-0U-125D-830-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563540
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-125D-830-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

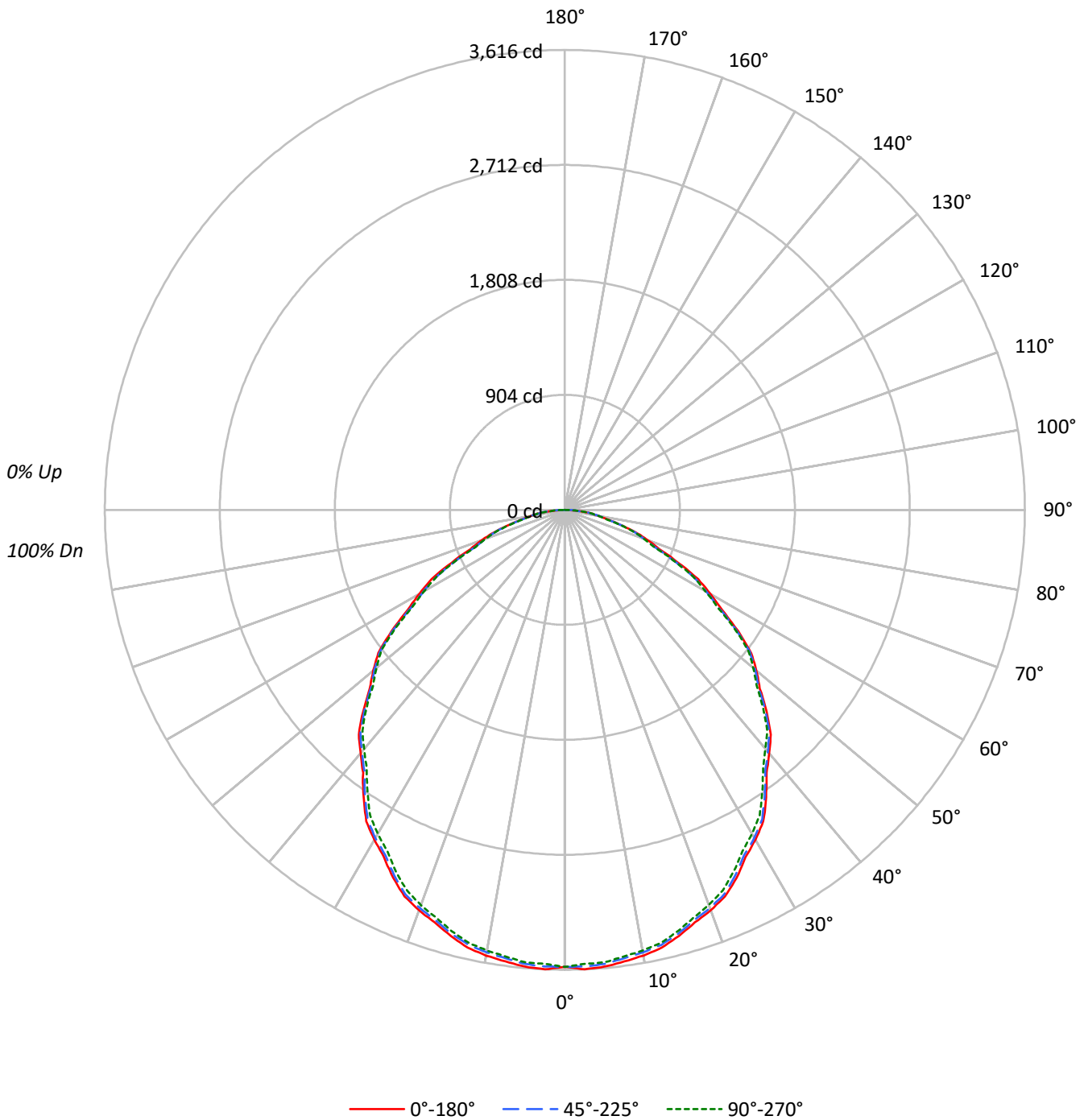
Lumens per Lamp: N/A
Luminaire Lumens: 9196.7 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16576	16576	16576
5°	16697	16596	16537
10°	16669	16551	16477
15°	16559	16469	16378
20°	16449	16356	16233
25°	16254	16141	15981
30°	15953	15869	15668
35°	15536	15429	15234
40°	15039	14944	14773
45°	14628	14525	14381
50°	14103	14013	13877
55°	13373	13196	13094
60°	12174	11825	11767
65°	10725	10278	10244
70°	9259	8878	8878
75°	7971	7858	7746
80°	7027	7112	6944
85°	5499	6002	6002



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	339.8	3.7
10°-20°	970.2	10.5
20°-30°	1453.2	15.8
30°-40°	1704.5	18.5
40°-50°	1709.8	18.6
50°-60°	1458.6	15.9
60°-70°	951.3	10.3
70°-80°	477.3	5.2
80°-90°	132.1	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°	2763.1	30.0
0°-40°	4467.6	48.6
0°-60°	7636.0	83.0
0°-90°	9196.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9196.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3593	3593	3593	3593	3593	
5°	3606	3572	3584	3571	3571	342
15°	3467	3433	3448	3436	3429	978
25°	3193	3156	3171	3143	3140	1468
35°	2759	2731	2740	2708	2705	1723
45°	2242	2227	2226	2204	2204	1726
55°	1663	1657	1641	1631	1628	1478
65°	982	964	942	935	938	981
75°	447	447	441	438	435	485
85°	104	113	113	113	113	126
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3593.2	3593.2	3593.2	3593.2	3593.2
2.5°	3615.9	3586.3	3593.2	3587.8	3573.0
5°	3605.8	3571.9	3583.8	3571.2	3571.2
7.5°	3581.2	3544.3	3556.0	3543.4	3542.8
10°	3558.6	3521.6	3533.4	3520.7	3517.6
12.5°	3525.8	3488.9	3503.1	3488.0	3487.4
15°	3467.2	3433.4	3448.3	3435.6	3429.4
17.5°	3401.1	3364.2	3382.2	3364.5	3362.1
20°	3350.7	3313.8	3331.8	3306.6	3306.6
22.5°	3290.3	3253.3	3273.9	3241.1	3241.1
25°	3193.3	3156.3	3171.2	3142.8	3139.7
27.5°	3078.0	3041.7	3057.2	3025.1	3024.5
30°	2994.9	2961.0	2979.1	2944.4	2941.3
32.5°	2904.2	2872.8	2885.9	2851.2	2848.1
35°	2758.7	2731.0	2739.8	2708.2	2705.1
37.5°	2605.6	2577.3	2587.4	2560.2	2559.0
40°	2497.3	2478.8	2481.5	2459.4	2453.2
42.5°	2396.5	2375.6	2378.3	2356.2	2354.9
45°	2242.2	2226.8	2226.5	2204.4	2204.4
47.5°	2078.5	2066.8	2063.3	2045.1	2044.4
50°	1965.1	1955.8	1952.5	1936.7	1933.6
52.5°	1846.7	1842.4	1831.6	1818.3	1817.7
55°	1662.8	1656.6	1640.7	1631.2	1628.1
57.5°	1463.1	1450.8	1432.9	1419.1	1421.5
60°	1319.5	1307.2	1281.7	1275.4	1275.4
62.5°	1180.9	1166.2	1140.6	1131.9	1136.9
65°	982.5	964.1	941.6	935.4	938.5
67.5°	802.4	785.8	761.5	761.4	759.0
70°	686.5	677.3	658.2	658.2	658.2
72.5°	583.2	578.9	565.0	564.9	562.4
75°	447.2	447.2	440.9	437.7	434.6
77.5°	335.1	336.3	333.2	329.9	324.4
80°	264.5	270.7	267.7	264.5	261.4
82.5°	199.0	205.2	204.7	199.0	198.4
85°	103.9	113.2	113.4	113.4	113.4
87.5°	27.7	37.6	40.3	40.4	42.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)