

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: P564161

Luminaire Tested: **SQ4-PR1-0U-075D-830-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564161
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-075D-830-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

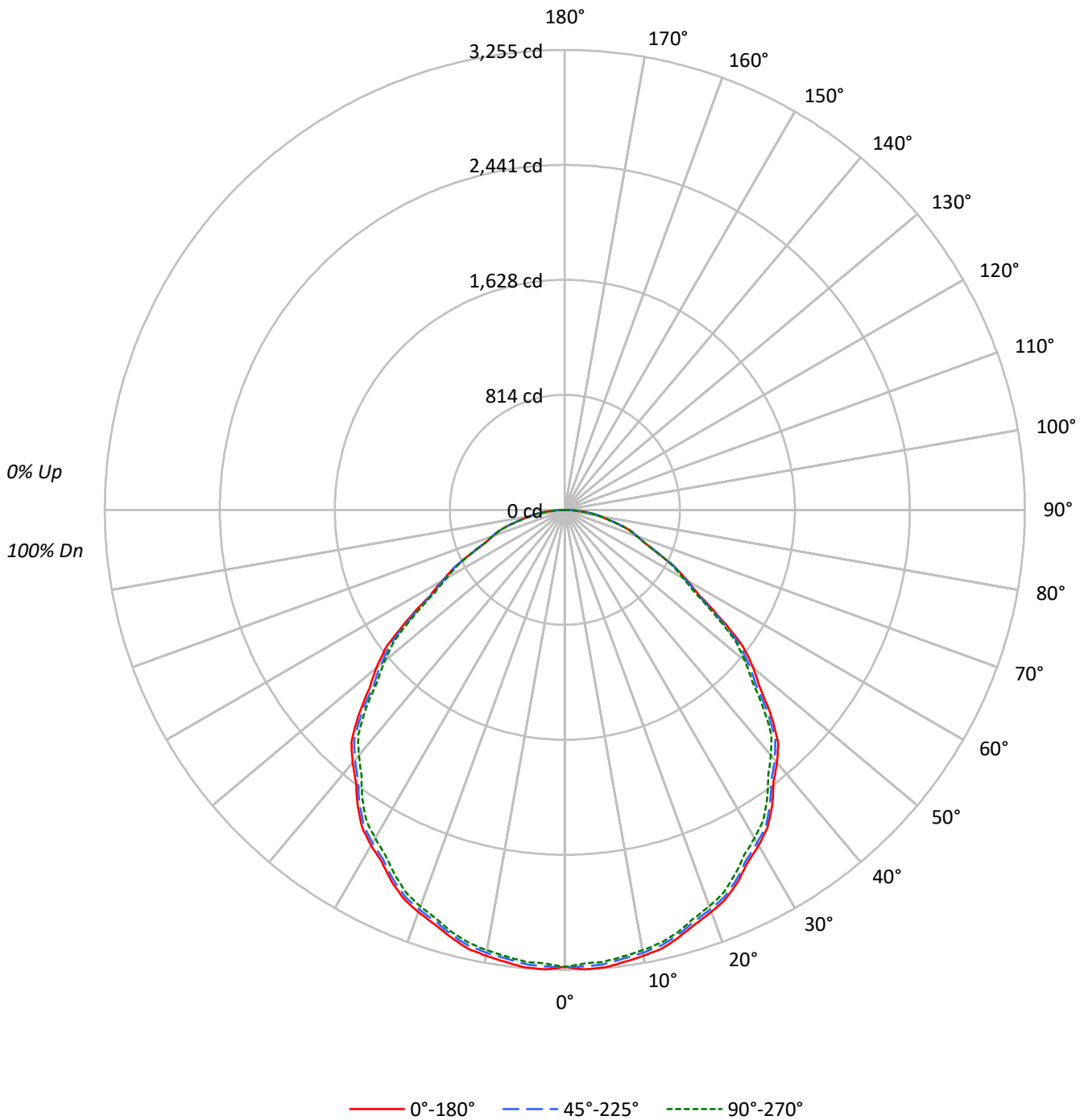
Lumens per Lamp: N/A
Luminaire Lumens: 8087.6 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Direct

Input Watts (W): 79.4
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°	9950	9950	9950
5°	10039	9962	9910
10°	10007	9938	9885
15°	9963	9901	9848
20°	9913	9849	9776
25°	9843	9777	9664
30°	9737	9668	9529
35°	9594	9510	9374
40°	9375	9274	9106
45°	8993	8835	8653
50°	8319	8119	7959
55°	7261	7097	6947
60°	6119	6067	5947
65°	5293	5313	5272
70°	4861	4886	4886
75°	4669	4669	4702
80°	4392	4442	4392
85°	3539	3934	3934



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	305.9	3.8
10°-20°	875.3	10.8
20°-30°	1320.2	16.3
30°-40°	1573.1	19.5
40°-50°	1550.9	19.2
50°-60°	1185.3	14.7
60°-70°	733.5	9.1
70°-80°	416.6	5.2
80°-90°	126.7	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°	2501.5	30.9
0°-40°	4074.6	50.4
0°-60°	6810.8	84.2
0°-90°	8087.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8087.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3235	3235	3235	3235	3235	
5°	3252	3216	3227	3216	3210	309
15°	3129	3097	3110	3098	3093	883
25°	2901	2865	2881	2851	2848	1335
35°	2555	2525	2533	2500	2497	1595
45°	2068	2040	2031	1995	1990	1584
55°	1354	1332	1324	1301	1296	1213
65°	727	722	730	724	724	737
75°	393	393	393	396	396	415
85°	100	106	112	112	112	121
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3235.2	3235.2	3235.2	3235.2	3235.2
2.5°	3255.2	3226.9	3235.2	3228.1	3212.9
5°	3251.9	3216.5	3226.8	3215.5	3210.1
7.5°	3226.8	3191.9	3202.3	3191.1	3187.8
10°	3204.5	3171.8	3182.2	3171.0	3165.5
12.5°	3180.0	3145.1	3157.7	3144.2	3138.8
15°	3129.3	3096.6	3109.8	3098.5	3093.1
17.5°	3073.6	3038.7	3051.8	3038.8	3031.8
20°	3029.0	2996.3	3009.5	2989.9	2987.2
22.5°	2979.9	2947.2	2960.4	2934.2	2933.7
25°	2900.8	2865.4	2881.3	2850.6	2847.8
27.5°	2806.6	2773.9	2787.1	2755.8	2752.5
30°	2742.0	2709.3	2722.4	2688.9	2683.4
32.5°	2668.4	2637.9	2648.9	2615.4	2612.1
35°	2555.3	2525.3	2533.0	2499.5	2496.7
37.5°	2426.5	2399.3	2403.7	2366.8	2364.1
40°	2335.1	2307.9	2310.0	2271.0	2268.2
42.5°	2234.8	2207.6	2205.3	2166.2	2163.5
45°	2067.6	2040.4	2031.4	1995.0	1989.6
47.5°	1877.0	1849.8	1833.0	1803.4	1799.5
50°	1738.8	1711.6	1697.0	1671.7	1663.6
52.5°	1589.4	1562.2	1549.9	1526.8	1518.7
55°	1354.3	1332.5	1323.6	1301.2	1295.7
57.5°	1130.8	1116.1	1113.5	1091.7	1089.5
60°	994.8	986.6	986.4	966.9	966.9
62.5°	878.9	872.9	877.2	864.3	862.2
65°	727.3	721.8	730.1	724.5	724.5
67.5°	607.5	607.5	612.5	610.3	610.3
70°	540.6	540.6	543.4	543.4	543.4
72.5°	480.4	478.2	485.4	485.4	483.2
75°	392.9	392.9	392.9	395.7	395.7
77.5°	306.0	306.5	308.7	308.1	306.0
80°	248.0	250.7	250.8	248.0	248.0
82.5°	190.0	192.8	192.8	192.2	190.0
85°	100.3	105.8	111.5	111.5	111.5
87.5°	29.0	37.7	44.6	44.5	42.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)