

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: P564837

Luminaire Tested: **SQ4-PW1-0U-075D-835-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564837
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-075D-835-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

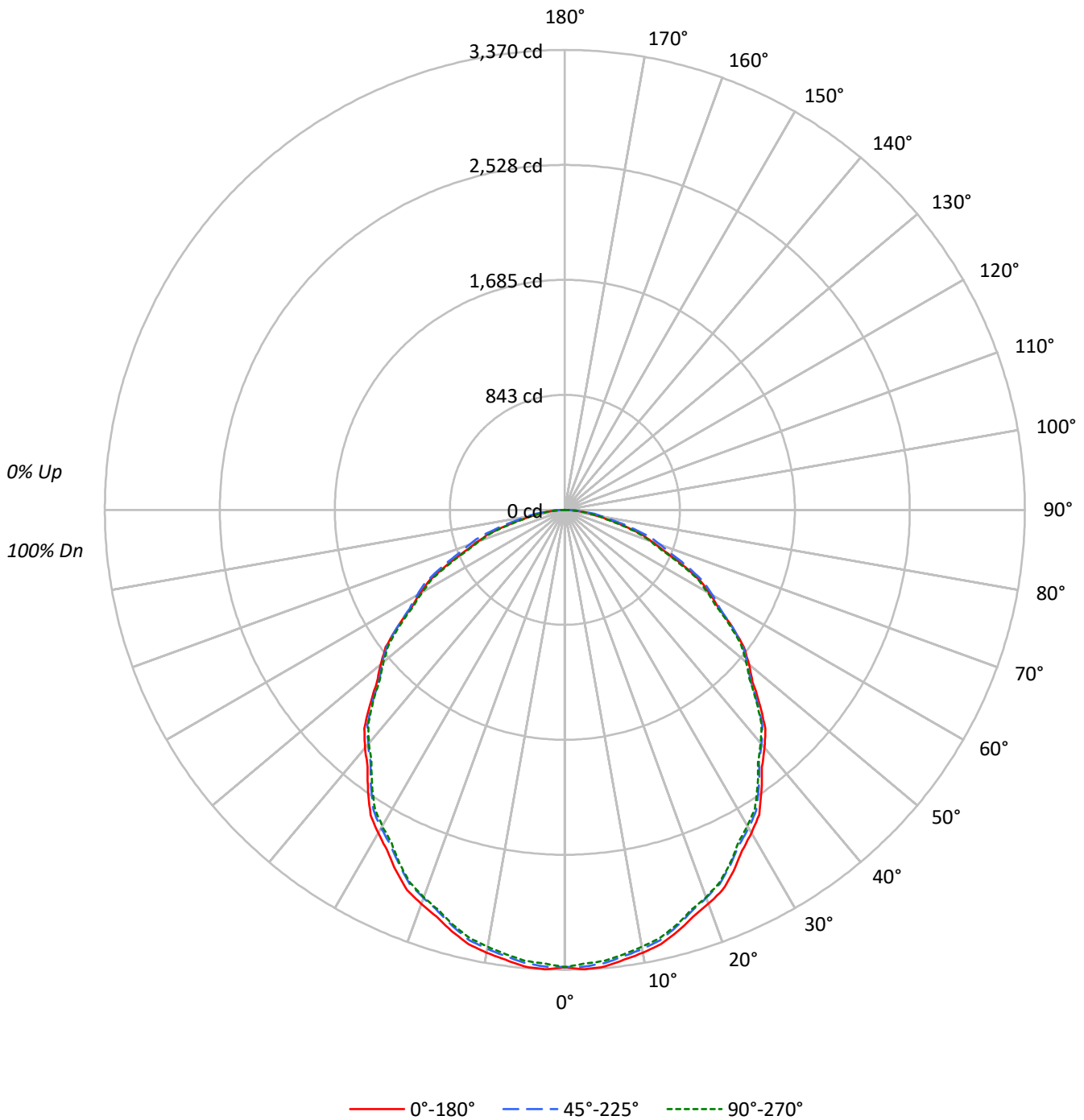
Lumens per Lamp: N/A
Luminaire Lumens: 8525.2 lumens
Efficiency: N/A
Efficacy: 107.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Direct

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



TEST NUMBER: P564837
CATALOG NUMBER: SQ4-PW1-0U-075D-835-1D-UNV-STD-W-12

Luminous Intensity Polar Plot





TEST NUMBER: P564837

CATALOG NUMBER: SQ4-PW1-0U-075D-835-1D-UNV-STD-W-12

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	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85			85	
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	76	73	71			71	
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60			60	
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52			52	
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45			45	
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40			40	
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35			35	
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31			31	
9	58	44	36	31	56	44	36	31	43	35	31	42	35	30	41	35	30	28			28	
10	54	41	33	28	53	40	33	28	39	33	28	39	32	28	38	32	28	26			26	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10305	10305	10305
5°	10372	10289	10244
10°	10289	10206	10150
15°	10180	10067	10029
20°	10058	9903	9884
25°	9918	9737	9707
30°	9708	9561	9498
35°	9432	9299	9244
40°	9138	8996	8960
45°	8782	8667	8629
50°	8418	8347	8291
55°	8026	8026	7898
60°	7536	7681	7409
65°	6896	7240	6724
70°	6079	6663	5919
75°	5191	5964	5051
80°	4026	5019	4079
85°	2604	3853	3437



TEST NUMBER: P564837

CATALOG NUMBER: SQ4-PW1-0U-075D-835-1D-UNV-STD-W-12

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	315.5	3.7
10°-20°	890.8	10.4
20°-30°	1321.4	15.5
30°-40°	1546.1	18.1
40°-50°	1539.2	18.1
50°-60°	1329.2	15.6
60°-70°	956.8	11.2
70°-80°	501.7	5.9
80°-90°	124.4	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°	2527.7	29.6
0°-40°	4073.8	47.8
0°-60°	6942.3	81.4
0°-90°	8525.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8525.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3351	3351	3351	3351	3351	
5°	3360	3322	3333	3324	3318	318
15°	3197	3157	3162	3156	3150	901
25°	2923	2874	2870	2852	2861	1344
35°	2512	2478	2477	2454	2462	1571
45°	2019	2002	1993	1987	1984	1558
55°	1497	1494	1497	1476	1473	1335
65°	948	976	995	956	924	939
75°	437	477	502	468	425	468
85°	74	97	109	103	97	100
90°	0	0	0	0	0	



TEST NUMBER: P564837

CATALOG NUMBER: SQ4-PW1-0U-075D-835-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3350.7	3350.7	3350.7	3350.7	3350.7
2.5°	3369.6	3341.9	3350.7	3343.3	3327.1
5°	3359.6	3322.1	3333.0	3324.0	3318.3
7.5°	3325.3	3290.7	3298.8	3289.2	3285.8
10°	3294.6	3260.0	3268.1	3256.1	3250.4
12.5°	3259.2	3222.3	3230.3	3218.4	3214.9
15°	3197.2	3156.8	3161.8	3155.8	3150.0
17.5°	3125.2	3084.2	3085.0	3075.6	3074.4
20°	3073.2	3029.9	3026.0	3014.3	3020.1
22.5°	3016.5	2970.9	2966.9	2950.6	2958.7
25°	2922.7	2873.6	2869.5	2852.0	2860.7
27.5°	2814.0	2765.5	2765.6	2741.0	2750.3
30°	2733.7	2687.5	2692.4	2663.1	2674.7
32.5°	2648.7	2607.1	2609.7	2580.5	2592.0
35°	2512.3	2477.7	2476.9	2453.5	2462.1
37.5°	2373.0	2342.4	2337.5	2324.0	2326.3
40°	2276.1	2250.2	2240.7	2231.9	2231.9
42.5°	2174.6	2150.9	2141.5	2135.0	2132.7
45°	2019.3	2002.0	1992.7	1986.8	1983.9
47.5°	1865.8	1849.6	1841.6	1837.4	1834.5
50°	1759.5	1748.0	1744.7	1735.8	1732.9
52.5°	1653.2	1646.3	1643.2	1631.9	1629.0
55°	1496.8	1493.9	1496.8	1476.0	1473.1
57.5°	1333.8	1338.4	1348.0	1320.1	1313.1
60°	1225.2	1236.7	1248.8	1216.0	1204.5
62.5°	1114.2	1132.6	1149.6	1112.0	1095.9
65°	947.7	976.5	994.9	955.8	924.0
67.5°	787.1	822.8	844.9	802.8	767.0
70°	676.1	716.5	741.0	698.8	658.3
72.5°	579.2	624.3	644.2	604.3	563.9
75°	436.9	477.3	501.9	468.4	425.1
77.5°	310.0	348.1	368.4	339.3	303.5
80°	227.3	267.7	283.4	259.1	230.3
82.5°	161.2	194.7	205.5	190.9	171.2
85°	73.8	96.9	109.2	103.2	97.4
87.5°	18.9	35.1	44.9	44.9	47.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)