

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: P519283

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

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519283
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2009-966-13)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-WB-0U-075D-830-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 750 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

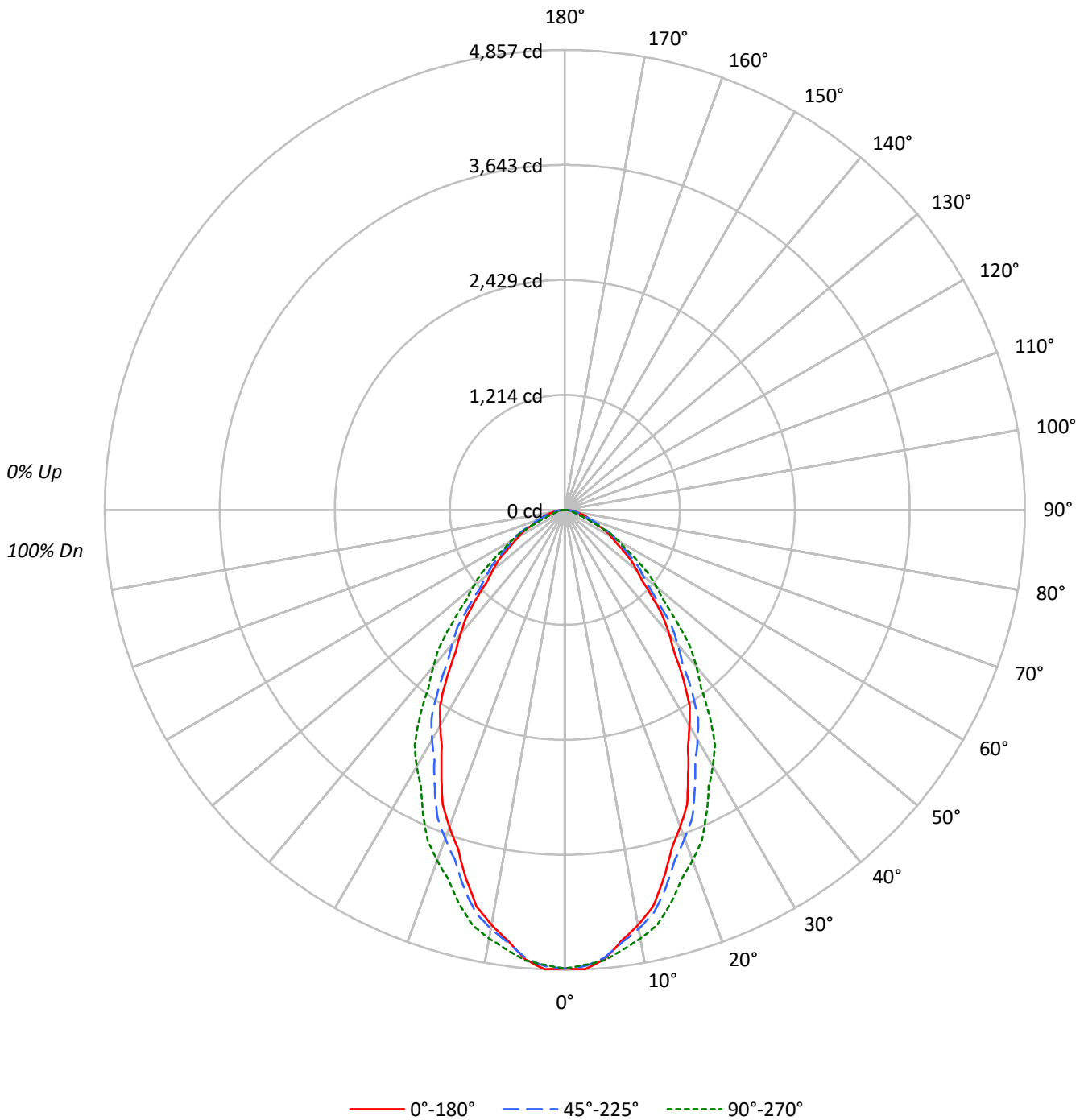
Lumens per Lamp: N/A
Luminaire Lumens: 7060.5 lumens
Efficiency: N/A
Efficacy: 88.9 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Direct

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	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89				89
2	103	97	91	87	101	95	90	86	92	87	84	88	85	82	85	83	80	78				78
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69				69
4	89	79	72	66	87	78	71	66	76	70	65	74	68	64	71	67	64	62				62
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	55				55
6	78	66	59	53	76	65	58	53	64	57	53	62	56	52	61	56	52	50				50
7	73	61	53	48	71	60	53	48	59	52	48	58	52	47	56	51	47	45				45
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	41				41
9	64	53	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38				38
10	61	49	42	37	60	48	42	37	48	41	37	47	41	37	46	41	37	35				35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14901	14901	14901
5°	14716	14663	14748
10°	13903	14029	14354
15°	12834	13132	13721
20°	11655	12093	12893
25°	10454	11024	12012
30°	9347	9959	11098
35°	8174	8764	10017
40°	6880	7426	8672
45°	5678	6168	7240
50°	4740	5167	6032
55°	4024	4434	4982
60°	3440	3845	3975
65°	2738	3233	2568
70°	2428	2523	1567
75°	2248	2046	960
80°	2070	1883	829
85°	1877	1725	674



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	444.4	6.3
10°-20°	1156.0	16.4
20°-30°	1497.3	21.2
30°-40°	1466.3	20.8
40°-50°	1122.3	15.9
50°-60°	747.9	10.6
60°-70°	408.1	5.8
70°-80°	170.0	2.4
80°-90°	48.2	0.7
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°	3097.7	43.9
0°-40°	4564.0	64.6
0°-60°	6434.2	91.1
0°-90°	7060.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7060.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4845	4845	4845	4845	4845	
5°	4767	4719	4750	4761	4777	443
15°	4031	4016	4125	4237	4310	1126
25°	3081	3089	3249	3390	3540	1417
35°	2177	2188	2334	2492	2668	1353
45°	1305	1330	1418	1525	1665	1018
55°	750	782	827	858	929	680
65°	376	408	444	388	353	391
75°	189	189	172	118	81	202
85°	53	53	49	32	19	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4845.3	4845.3	4845.3	4845.3	4845.3
2.5°	4857.2	4814.0	4824.9	4824.6	4811.3
5°	4766.7	4718.8	4749.7	4760.7	4777.3
7.5°	4589.8	4553.6	4609.8	4651.3	4685.0
10°	4452.0	4420.8	4492.4	4552.9	4596.6
12.5°	4292.1	4265.9	4354.6	4435.9	4492.8
15°	4031.0	4016.5	4124.6	4236.8	4309.6
17.5°	3751.7	3744.6	3868.6	3999.6	4092.7
20°	3561.2	3559.1	3695.1	3831.5	3939.6
22.5°	3369.0	3373.6	3516.5	3658.4	3781.4
25°	3080.7	3089.0	3248.6	3390.2	3539.9
27.5°	2814.1	2817.8	2982.9	3132.4	3292.0
30°	2632.1	2642.5	2804.3	2959.0	3125.3
32.5°	2450.1	2462.1	2620.6	2780.5	2950.1
35°	2177.1	2187.5	2334.4	2491.5	2668.2
37.5°	1895.6	1909.7	2040.2	2188.7	2362.5
40°	1713.6	1734.4	1849.7	1989.6	2160.1
42.5°	1538.4	1564.2	1671.1	1803.9	1957.7
45°	1305.4	1330.4	1418.1	1525.4	1664.7
47.5°	1104.7	1133.4	1200.8	1293.2	1412.1
50°	990.8	1017.8	1080.0	1148.5	1260.8
52.5°	890.4	917.4	972.9	1025.7	1121.3
55°	750.5	781.7	827.0	858.4	929.1
57.5°	635.7	665.6	701.6	715.8	758.6
60°	559.2	592.4	625.1	623.5	646.3
62.5°	489.4	517.7	550.2	527.7	529.0
65°	376.3	407.5	444.3	388.3	352.9
67.5°	304.0	310.7	348.7	270.8	228.8
70°	270.0	270.0	280.6	209.7	174.3
72.5°	237.7	237.7	227.9	170.5	133.5
75°	189.2	189.2	172.2	118.2	80.8
77.5°	145.8	144.2	131.8	88.2	58.7
80°	116.9	116.9	106.3	69.6	46.8
82.5°	91.4	91.4	82.5	54.4	34.9
85°	53.2	53.2	48.9	31.6	19.1
87.5°	18.7	18.7	17.0	10.2	8.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)