

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: P519287

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

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519287
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-835-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 750 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

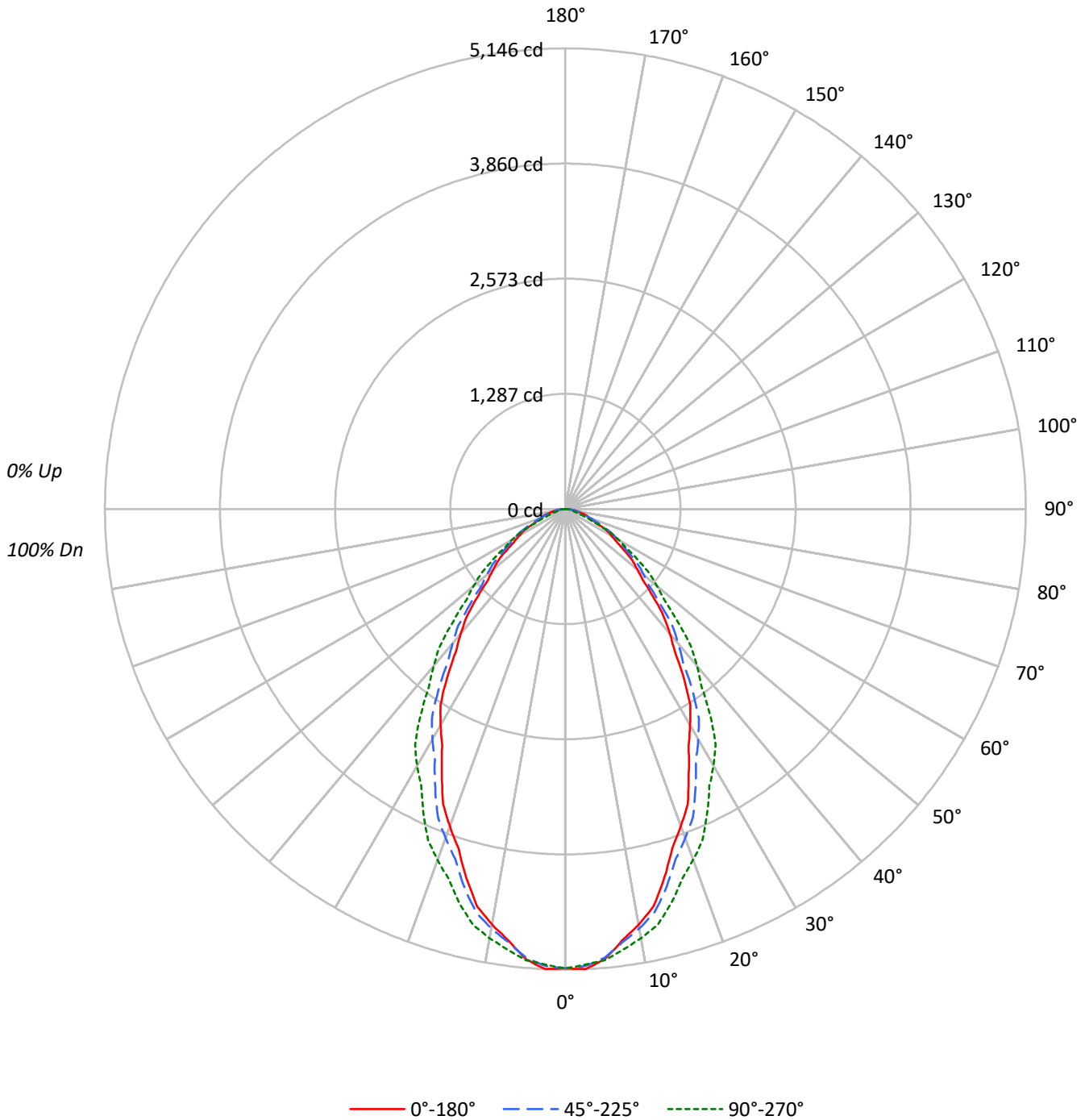
Lumens per Lamp: N/A
Luminaire Lumens: 7480.2 lumens
Efficiency: N/A
Efficacy: 94.2 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Direct

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89
2	103	97	91	87	101	95	90	86	92	87	84	88	85	82	85	83	80	78
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69
4	89	79	72	66	87	78	71	66	76	70	65	74	68	64	71	67	64	62
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	55
6	78	66	59	53	76	65	58	53	64	57	53	62	56	52	61	56	52	50
7	73	61	53	48	71	60	53	48	59	52	48	58	52	47	56	51	47	45
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	41
9	64	53	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38
10	61	49	42	37	60	48	42	37	48	41	37	47	41	37	46	41	37	35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15787	15787	15787
5°	15590	15535	15625
10°	14729	14863	15208
15°	13597	13913	14537
20°	12348	12812	13660
25°	11075	11679	12726
30°	9902	10551	11758
35°	8659	9285	10613
40°	7289	7867	9188
45°	6015	6534	7671
50°	5022	5474	6391
55°	4263	4698	5278
60°	3644	4073	4211
65°	2901	3426	2721
70°	2573	2673	1661
75°	2382	2167	1017
80°	2194	1994	878
85°	1987	1828	716



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	470.9	6.3
10°-20°	1224.7	16.4
20°-30°	1586.3	21.2
30°-40°	1553.4	20.8
40°-50°	1189.1	15.9
50°-60°	792.3	10.6
60°-70°	432.4	5.8
70°-80°	180.2	2.4
80°-90°	51.0	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°	3281.9	43.9
0°-40°	4835.3	64.6
0°-60°	6816.7	91.1
0°-90°	7480.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7480.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5133	5133	5133	5133	5133	
5°	5050	4999	5032	5044	5061	470
15°	4271	4255	4370	4489	4566	1193
25°	3264	3273	3442	3592	3750	1501
35°	2306	2318	2473	2640	2827	1434
45°	1383	1409	1502	1616	1764	1079
55°	795	828	876	909	984	721
65°	399	432	471	411	374	414
75°	200	200	182	125	86	214
85°	56	56	52	34	20	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5133.3	5133.3	5133.3	5133.3	5133.3
2.5°	5146.0	5100.1	5111.7	5111.4	5097.3
5°	5050.0	4999.3	5032.0	5043.6	5061.3
7.5°	4862.6	4824.3	4883.8	4927.8	4963.5
10°	4716.6	4683.6	4759.4	4823.6	4869.8
12.5°	4547.3	4519.5	4613.5	4699.5	4759.9
15°	4270.7	4255.2	4369.8	4488.6	4565.7
17.5°	3974.7	3967.2	4098.6	4237.3	4336.0
20°	3772.9	3770.7	3914.8	4059.3	4173.8
22.5°	3569.2	3574.1	3725.6	3875.8	4006.2
25°	3263.8	3272.6	3441.8	3591.8	3750.3
27.5°	2981.3	2985.3	3160.2	3318.6	3487.7
30°	2788.5	2799.6	2971.0	3134.9	3311.1
32.5°	2595.7	2608.5	2776.4	2945.8	3125.5
35°	2306.5	2317.5	2473.2	2639.6	2826.8
37.5°	2008.3	2023.3	2161.5	2318.8	2502.9
40°	1815.5	1837.5	1959.6	2107.9	2288.5
42.5°	1629.9	1657.2	1770.4	1911.1	2074.1
45°	1383.0	1409.4	1502.4	1616.1	1763.7
47.5°	1170.4	1200.8	1272.2	1370.1	1496.1
50°	1049.6	1078.3	1144.2	1216.8	1335.7
52.5°	943.3	972.0	1030.7	1086.6	1187.9
55°	795.1	828.2	876.2	909.4	984.3
57.5°	673.5	705.2	743.3	758.3	803.7
60°	592.4	627.6	662.2	660.5	684.7
62.5°	518.5	548.5	582.9	559.1	560.4
65°	398.7	431.7	470.8	411.3	373.9
67.5°	322.1	329.1	369.4	286.9	242.4
70°	286.1	286.1	297.3	222.1	184.7
72.5°	251.8	251.8	241.5	180.7	141.5
75°	200.5	200.5	182.4	125.2	85.6
77.5°	154.5	152.8	139.7	93.4	62.2
80°	123.9	123.9	112.6	73.8	49.6
82.5°	96.9	96.9	87.4	57.6	36.9
85°	56.3	56.3	51.8	33.5	20.3
87.5°	19.8	19.8	18.0	10.8	9.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)