

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: P564562

Luminaire Tested: **SQ4-PW1-025U-075D-935-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564562
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-PW1-025U-075D-935-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

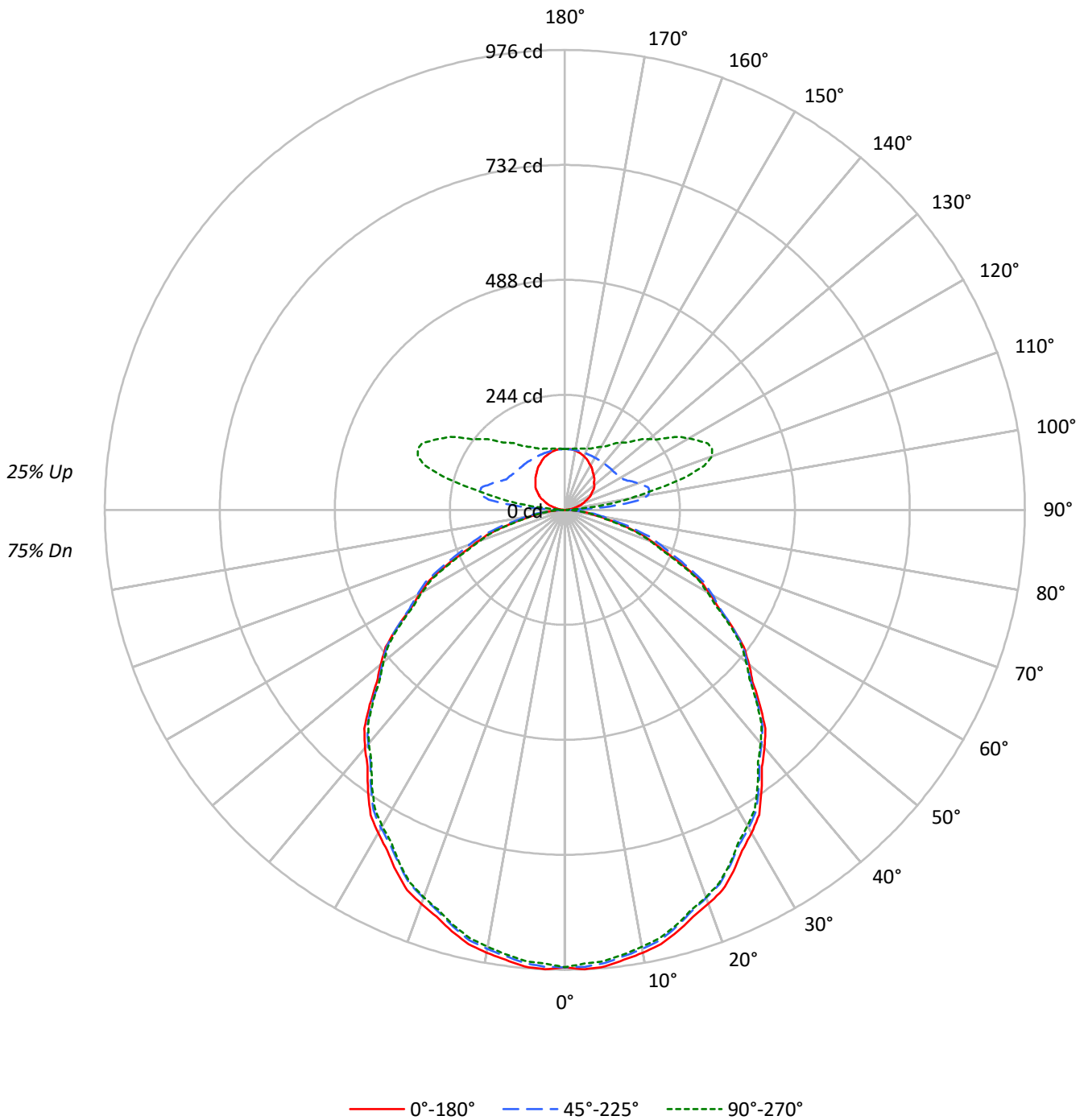
Lumens per Lamp: N/A
Luminaire Lumens: 3309.1 lumens
Efficiency: N/A
Efficacy: 110.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 29.9
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	113	113	113	113	107	107	107	107	97	97	97	87	87	87	79	79	79	75
1	103	99	95	91	98	94	91	88	86	83	80	77	75	73	70	68	67	63
2	94	87	80	75	89	83	77	72	75	71	67	68	65	62	62	59	57	53
3	86	76	69	63	82	73	66	60	66	61	56	60	56	52	55	51	48	45
4	79	68	59	53	75	65	57	51	59	53	48	54	49	45	49	45	42	39
5	73	61	52	46	69	58	50	44	53	47	42	48	43	39	44	40	36	34
6	67	54	46	40	64	52	44	39	48	41	37	44	38	34	40	36	32	30
7	62	49	41	35	59	47	40	34	44	37	32	40	35	30	37	32	29	26
8	58	45	37	31	55	43	36	31	40	33	29	37	31	27	34	29	26	23
9	54	41	33	28	51	40	32	27	37	30	26	34	28	25	31	27	23	21
10	50	38	30	25	48	37	30	25	34	28	24	31	26	22	29	24	21	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8954	8954	8954
5°	9011	8940	8901
10°	8939	8867	8820
15°	8845	8747	8714
20°	8739	8605	8588
25°	8617	8461	8434
30°	8435	8308	8253
35°	8195	8080	8032
40°	7939	7817	7785
45°	7632	7531	7497
50°	7315	7253	7204
55°	6973	6973	6864
60°	6547	6674	6438
65°	5993	6292	5842
70°	5282	5789	5144
75°	4509	5183	4388
80°	3496	4362	3544
85°	2265	3345	2985



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.4	2.8
10°-20°	258.0	7.8
20°-30°	382.7	11.6
30°-40°	447.8	13.5
40°-50°	445.8	13.5
50°-60°	385.0	11.6
60°-70°	277.1	8.4
70°-80°	145.3	4.4
80°-90°	36.7	1.1
90°-100°	63.1	1.9
100°-110°	165.9	5.0
110°-120°	172.0	5.2
120°-130°	138.0	4.2
130°-140°	108.3	3.3
140°-150°	83.1	2.5
150°-160°	59.9	1.8
160°-170°	36.6	1.1
170°-180°	12.4	0.4
0°-30°	732.1	22.1
0°-40°	1179.9	35.7
0°-60°	2010.7	60.8
0°-90°	2469.8	74.6
90°-120°	401.1	12.1
90°-150°	730.4	22.1
90°-180°	839.0	25.4
0°-180°	3309.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	970	970	970	970	970	
5°	973	962	965	963	961	92
15°	926	914	916	914	912	261
25°	846	832	831	826	828	389
35°	728	718	717	711	713	455
45°	585	580	577	575	575	451
55°	434	433	434	428	427	387
65°	274	283	288	277	268	272
75°	126	138	145	136	123	136
85°	21	28	32	30	28	28
90°	1	2	7	3	3	1
95°	8	33	109	56	38	9
105°	30	45	183	278	260	32
115°	53	64	147	293	334	52
125°	74	83	134	226	266	66
135°	88	97	130	182	207	68
145°	102	109	128	156	168	64
155°	115	119	128	140	144	53
165°	124	126	128	133	134	35
175°	130	130	129	130	130	12
180°	130	130	130	130	130	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	970.5	970.5	970.5	970.5	970.5
2.5°	975.9	967.9	970.5	968.3	963.6
5°	973.0	962.2	965.3	962.7	961.1
7.5°	963.1	953.1	955.4	952.7	951.7
10°	954.2	944.2	946.5	943.1	941.4
12.5°	944.0	933.3	935.6	932.1	931.1
15°	926.0	914.3	915.8	914.0	912.3
17.5°	905.2	893.3	893.5	890.8	890.4
20°	890.1	877.6	876.4	873.0	874.7
22.5°	873.7	860.5	859.3	854.6	856.9
25°	846.5	832.3	831.1	826.0	828.5
27.5°	815.0	801.0	801.0	793.9	796.6
30°	791.8	778.4	779.8	771.3	774.7
32.5°	767.1	755.1	755.9	747.4	750.7
35°	727.6	717.6	717.4	710.6	713.1
37.5°	687.3	678.4	677.0	673.1	673.8
40°	659.2	651.7	649.0	646.4	646.4
42.5°	629.8	623.0	620.2	618.4	617.7
45°	584.9	579.8	577.2	575.4	574.6
47.5°	540.4	535.7	533.4	532.2	531.3
50°	509.6	506.3	505.3	502.7	501.9
52.5°	478.8	476.8	475.9	472.6	471.8
55°	433.5	432.7	433.5	427.5	426.7
57.5°	386.3	387.6	390.4	382.3	380.3
60°	354.8	358.2	361.7	352.2	348.9
62.5°	322.7	328.0	333.0	322.1	317.4
65°	274.5	282.8	288.2	276.8	267.6
67.5°	228.0	238.3	244.7	232.5	222.1
70°	195.8	207.5	214.6	202.4	190.7
72.5°	167.8	180.8	186.6	175.0	163.3
75°	126.5	138.3	145.4	135.7	123.1
77.5°	89.8	100.8	106.7	98.3	87.9
80°	65.8	77.5	82.1	75.1	66.7
82.5°	46.7	56.4	59.5	55.3	49.6
85°	21.4	28.1	31.6	29.9	28.2
87.5°	5.6	10.6	14.3	13.7	14.3
90°	0.8	2.5	6.6	3.3	3.3
92.5°	3.5	16.8	37.2	16.5	10.6
95°	8.3	32.6	108.7	56.0	38.2
97.5°	14.4	35.9	162.7	129.4	95.3
100°	19.1	38.6	179.3	181.7	141.1
102.5°	23.1	41.3	183.9	226.3	191.6
105°	29.9	45.3	183.4	278.5	259.8
107.5°	36.9	51.1	173.0	305.6	310.1
110°	41.5	54.5	164.3	312.5	332.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	46.2	58.5	156.4	308.1	338.0
115°	53.1	64.5	146.9	293.1	334.5
117.5°	59.9	70.3	140.4	272.3	318.2
120°	63.9	73.7	137.8	258.3	303.0
122.5°	67.9	77.6	135.8	244.4	288.4
125°	73.9	82.8	133.6	225.9	266.4
127.5°	78.7	87.8	131.8	210.9	245.2
130°	81.3	91.1	131.1	201.6	233.2
132.5°	84.0	93.7	130.5	193.5	222.0
135°	88.0	96.9	129.5	182.3	206.7
137.5°	92.1	100.9	129.3	173.9	193.9
140°	95.5	103.6	128.7	167.3	185.9
142.5°	98.1	105.6	128.7	162.6	178.6
145°	102.1	108.6	127.8	155.5	167.7
147.5°	106.1	112.4	127.8	149.6	159.7
150°	108.7	114.4	127.8	146.3	154.4
152.5°	111.4	115.8	127.8	143.6	149.7
155°	115.4	118.6	127.8	140.4	144.4
157.5°	118.4	121.4	127.8	137.5	140.4
160°	120.4	122.8	127.8	136.2	137.8
162.5°	122.3	124.1	127.8	134.8	136.5
165°	124.5	126.1	127.8	132.8	134.5
167.5°	126.5	127.3	128.7	132.0	132.6
170°	127.8	128.6	128.7	132.0	132.0
172.5°	128.5	128.7	128.7	131.3	130.6
175°	129.5	129.5	128.7	130.3	130.3
177.5°	129.5	129.5	128.8	130.1	129.5
180°	129.5	129.5	129.5	129.5	129.5

(END OF REPORT)