

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: P563890

Luminaire Tested: **SQ4-PR1-025U-075D-935-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563890
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-PR1-025U-075D-935-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

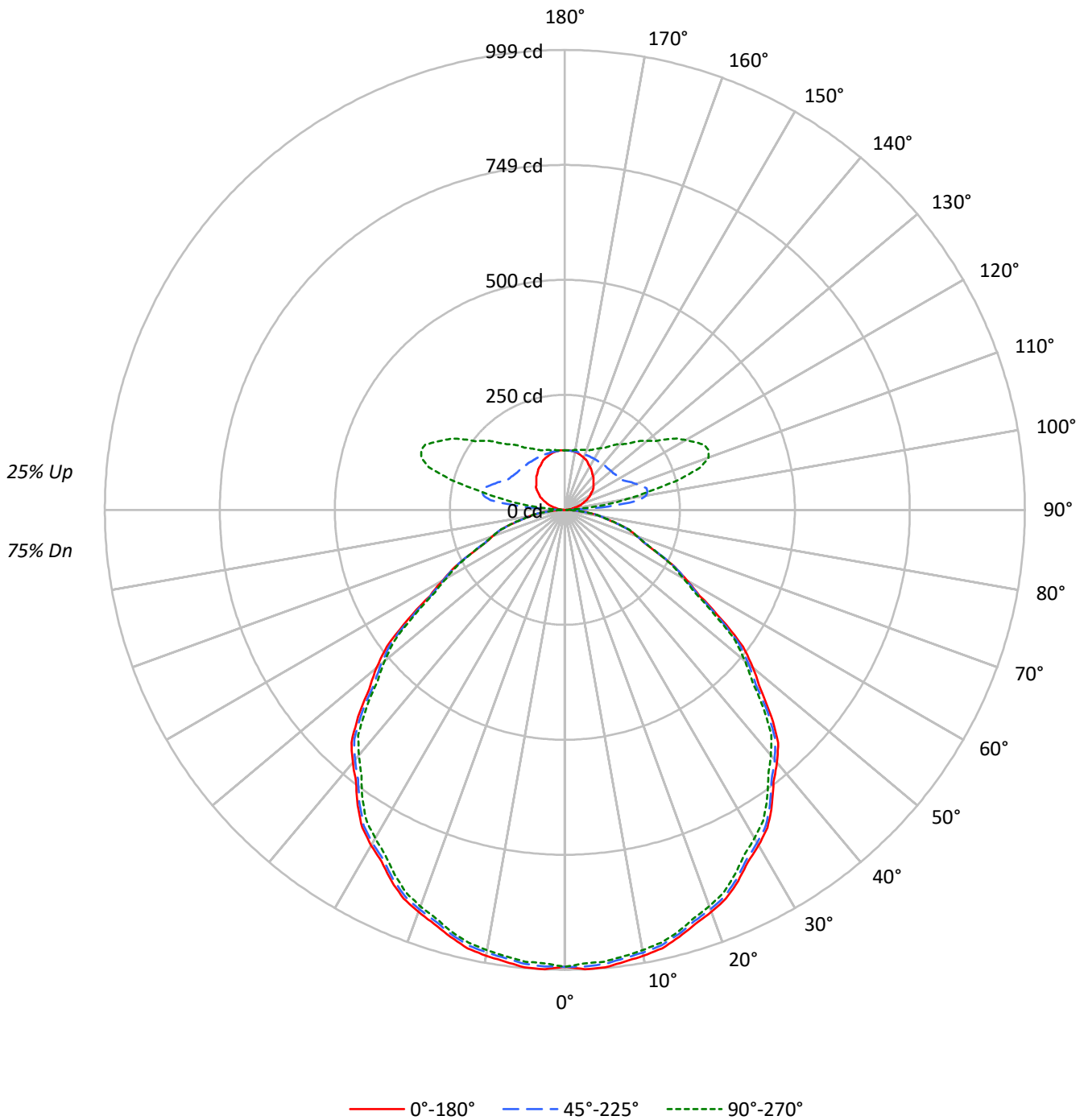
Lumens per Lamp: N/A
Luminaire Lumens: 3321.6 lumens
Efficiency: N/A
Efficacy: 111.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

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	50	30	10	0	
RCR																						
0	113	113	113	113	107	107	107	107	97	97	97	88	88	88	79	79	79	75				
1	104	99	96	92	99	95	91	88	86	83	81	78	76	74	70	69	67	64				
2	95	87	81	76	90	83	78	73	76	71	68	69	65	62	62	60	58	54				
3	87	77	70	64	82	74	67	62	67	62	57	61	57	53	56	52	49	46				
4	80	69	61	54	76	66	58	53	60	54	49	55	50	46	50	46	43	40				
5	73	62	53	47	70	59	51	46	54	48	43	50	44	40	45	41	38	35				
6	68	55	47	41	64	53	46	40	49	43	38	45	40	35	41	37	33	31				
7	63	50	42	36	60	48	41	35	45	38	33	41	36	32	38	33	30	27				
8	58	46	38	32	56	44	37	32	41	34	30	38	32	28	35	30	27	25				
9	55	42	34	29	52	40	33	28	37	31	27	35	29	26	32	27	24	22				
10	51	39	31	26	49	37	30	26	35	29	24	32	27	23	30	25	22	20				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9159	9159	9159
5°	9241	9170	9123
10°	9212	9148	9100
15°	9172	9114	9065
20°	9125	9066	8999
25°	9061	9000	8896
30°	8964	8900	8772
35°	8831	8754	8629
40°	8629	8537	8383
45°	8278	8133	7966
50°	7658	7474	7327
55°	6685	6532	6396
60°	5634	5586	5475
65°	4873	4890	4853
70°	4475	4497	4497
75°	4299	4299	4328
80°	4043	4091	4043
85°	3260	3620	3620



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.9	2.8
10°-20°	268.6	8.1
20°-30°	405.1	12.2
30°-40°	482.7	14.5
40°-50°	475.9	14.3
50°-60°	363.7	10.9
60°-70°	225.1	6.8
70°-80°	127.8	3.8
80°-90°	39.6	1.2
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°	767.6	23.1
0°-40°	1250.3	37.6
0°-60°	2089.9	62.9
0°-90°	2482.4	74.7
90°-120°	401.1	12.1
90°-150°	730.4	22.0
90°-180°	839.0	25.3
0°-180°	3321.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	993	993	993	993	993	
5°	998	987	990	987	985	95
15°	960	950	954	951	949	271
25°	890	879	884	875	874	410
35°	784	775	777	767	766	489
45°	634	626	623	612	610	486
55°	416	409	406	399	398	372
65°	223	222	224	222	222	226
75°	121	121	121	121	121	127
85°	31	32	34	34	34	36
90°	1	2	7	3	3	2
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°	992.7	992.7	992.7	992.7	992.7
2.5°	998.9	990.2	992.7	990.5	985.9
5°	997.8	987.0	990.1	986.7	985.0
7.5°	990.1	979.4	982.6	979.2	978.2
10°	983.3	973.3	976.5	973.0	971.3
12.5°	975.8	965.1	968.9	964.8	963.1
15°	960.2	950.2	954.2	950.8	949.1
17.5°	943.1	932.4	936.4	932.5	930.3
20°	929.4	919.4	923.4	917.4	916.6
22.5°	914.4	904.4	908.4	900.4	900.2
25°	890.1	879.2	884.1	874.7	873.9
27.5°	861.2	851.2	855.2	845.6	844.6
30°	841.4	831.3	835.4	825.1	823.4
32.5°	818.8	809.4	812.8	802.5	801.5
35°	784.1	774.9	777.2	767.0	766.1
37.5°	744.6	736.2	737.6	726.3	725.4
40°	716.5	708.2	708.8	696.8	696.0
42.5°	685.7	677.4	676.7	664.7	663.9
45°	634.4	626.1	623.3	612.2	610.5
47.5°	576.0	567.6	562.4	553.4	552.2
50°	533.5	525.2	520.7	513.0	510.5
52.5°	487.7	479.4	475.6	468.5	466.0
55°	415.6	408.9	406.1	399.3	397.6
57.5°	347.0	342.5	341.7	335.0	334.3
60°	305.3	302.7	302.7	296.7	296.7
62.5°	269.7	267.8	269.2	265.2	264.6
65°	223.2	221.5	224.0	222.3	222.3
67.5°	186.4	186.4	187.9	187.3	187.3
70°	165.9	165.9	166.7	166.7	166.7
72.5°	147.4	146.7	148.9	148.9	148.3
75°	120.6	120.6	120.6	121.4	121.4
77.5°	93.9	94.1	94.7	94.6	93.9
80°	76.1	76.9	77.0	76.1	76.1
82.5°	58.3	59.1	59.2	59.0	58.3
85°	30.8	32.5	34.2	34.2	34.2
87.5°	9.1	12.1	15.0	14.3	13.7
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)