

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: P563894

Luminaire Tested: **SQ4-PR1-025U-075D-940-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563894
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-940-1D-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: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

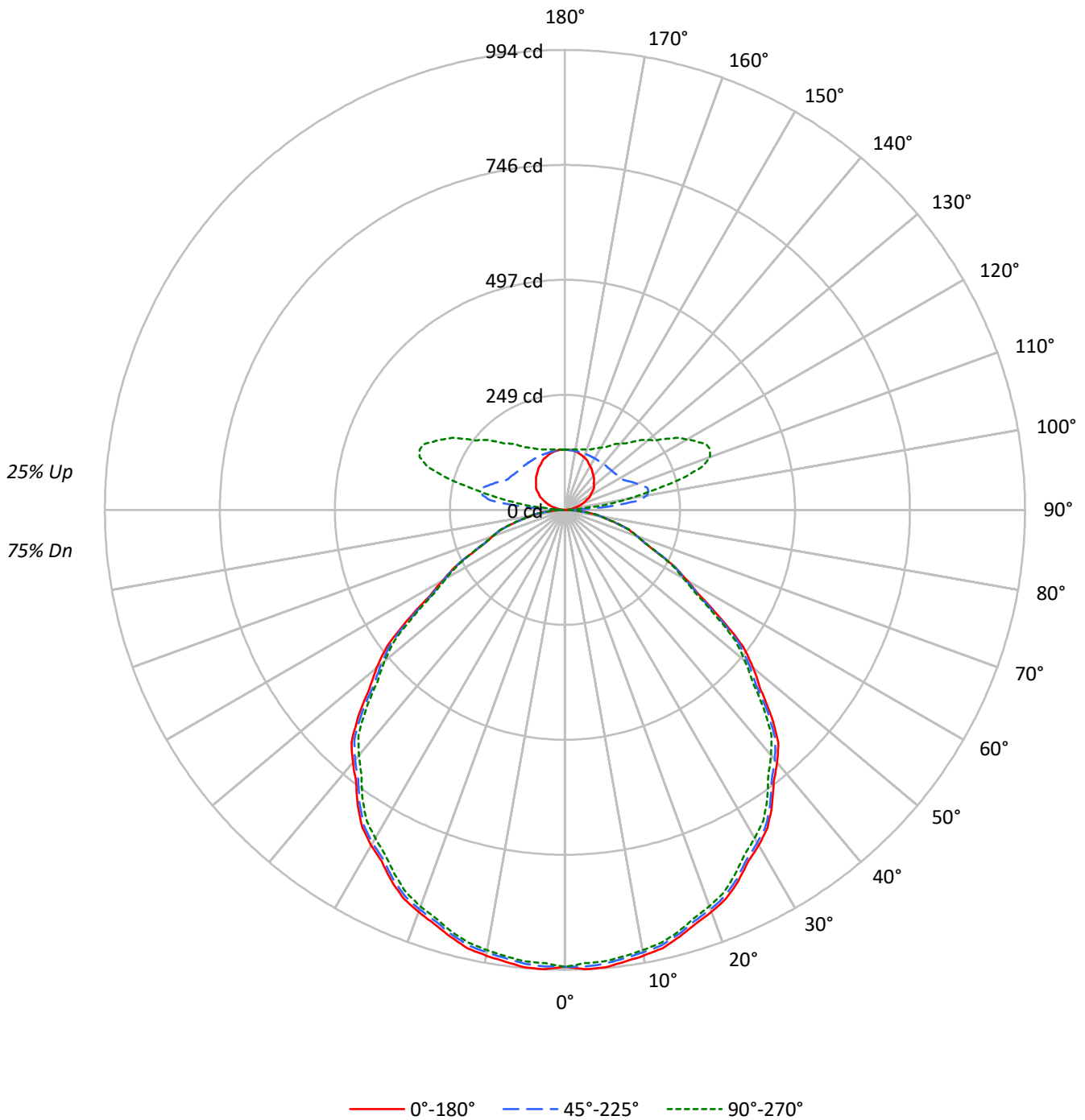
Lumens per Lamp: N/A
Luminaire Lumens: 3313.2 lumens
Efficiency: N/A
Efficacy: 110.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

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	87	87	87	79	79	79	75				
1	104	99	95	92	98	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	57	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	61	53	47	70	59	51	46	54	48	43	49	44	40	45	41	38	35				
6	68	55	47	41	64	53	46	40	49	42	38	45	40	35	41	37	33	31				
7	63	50	42	36	60	48	41	35	44	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	25	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°	9113	9113	9113
5°	9195	9123	9076
10°	9165	9102	9054
15°	9125	9068	9020
20°	9079	9021	8954
25°	9015	8954	8850
30°	8918	8854	8727
35°	8786	8710	8585
40°	8586	8493	8340
45°	8236	8092	7925
50°	7619	7437	7290
55°	6650	6500	6363
60°	5604	5556	5447
65°	4846	4866	4829
70°	4451	4475	4475
75°	4274	4274	4306
80°	4022	4070	4022
85°	3239	3599	3599



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.4	2.8
10°-20°	267.2	8.1
20°-30°	403.1	12.2
30°-40°	480.2	14.5
40°-50°	473.5	14.3
50°-60°	361.8	10.9
60°-70°	223.9	6.8
70°-80°	127.2	3.8
80°-90°	39.4	1.2
90°-100°	63.4	1.9
100°-110°	166.7	5.0
110°-120°	172.9	5.2
120°-130°	138.7	4.2
130°-140°	108.8	3.3
140°-150°	83.5	2.5
150°-160°	60.2	1.8
160°-170°	36.8	1.1
170°-180°	12.4	0.4
0°-30°	763.7	23.0
0°-40°	1243.9	37.5
0°-60°	2079.2	62.8
0°-90°	2469.7	74.5
90°-120°	403.0	12.2
90°-150°	734.0	22.2
90°-180°	843.0	25.4
0°-180°	3313.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	988	988	988	988	988	
5°	993	982	985	982	980	94
15°	955	945	949	946	944	270
25°	886	875	880	870	869	408
35°	780	771	773	763	762	487
45°	631	623	620	609	607	484
55°	413	407	404	397	396	370
65°	222	220	223	221	221	225
75°	120	120	120	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	46	184	280	261	32
115°	53	65	148	295	336	53
125°	74	83	134	227	268	66
135°	88	97	130	183	208	68
145°	103	109	128	156	168	64
155°	116	119	128	141	145	53
165°	125	127	128	134	135	35
175°	130	130	129	131	131	12
180°	130	130	130	130	130	

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CATALOG NUMBER: SQ4-PR1-025U-075D-940-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	987.7	987.7	987.7	987.7	987.7
2.5°	993.8	985.1	987.7	985.5	980.9
5°	992.8	982.0	985.1	981.7	980.0
7.5°	985.1	974.5	977.6	974.2	973.2
10°	978.3	968.3	971.5	968.1	966.4
12.5°	970.8	960.2	964.0	959.9	958.2
15°	955.3	945.4	949.4	945.9	944.3
17.5°	938.3	927.7	931.7	927.7	925.6
20°	924.7	914.7	918.8	912.8	912.0
22.5°	909.7	899.8	903.8	895.8	895.6
25°	885.6	874.8	879.6	870.2	869.4
27.5°	856.8	846.8	850.9	841.3	840.3
30°	837.1	827.1	831.1	820.9	819.2
32.5°	814.6	805.3	808.7	798.4	797.4
35°	780.1	770.9	773.3	763.1	762.2
37.5°	740.8	732.5	733.8	722.6	721.7
40°	712.9	704.6	705.2	693.3	692.5
42.5°	682.3	673.9	673.2	661.3	660.5
45°	631.2	622.9	620.2	609.1	607.4
47.5°	573.0	564.7	559.6	550.5	549.4
50°	530.8	522.5	518.1	510.4	507.9
52.5°	485.2	476.9	473.2	466.1	463.6
55°	413.4	406.8	404.1	397.2	395.6
57.5°	345.2	340.7	339.9	333.3	332.6
60°	303.7	301.2	301.1	295.2	295.2
62.5°	268.3	266.5	267.8	263.9	263.2
65°	222.0	220.4	222.9	221.2	221.2
67.5°	185.5	185.5	187.0	186.3	186.3
70°	165.0	165.0	165.9	165.9	165.9
72.5°	146.7	146.0	148.2	148.2	147.5
75°	119.9	119.9	119.9	120.8	120.8
77.5°	93.4	93.6	94.3	94.1	93.4
80°	75.7	76.5	76.6	75.7	75.7
82.5°	58.0	58.8	58.9	58.7	58.0
85°	30.6	32.3	34.0	34.0	34.0
87.5°	9.0	12.0	14.9	14.3	13.6
90°	0.8	2.5	6.7	3.3	3.3
92.5°	3.5	16.9	37.4	16.5	10.7
95°	8.3	32.8	109.3	56.3	38.4
97.5°	14.5	36.0	163.5	130.0	95.8
100°	19.2	38.8	180.2	182.6	141.8
102.5°	23.2	41.5	184.8	227.4	192.5
105°	30.0	45.5	184.3	279.8	261.1
107.5°	37.0	51.4	173.8	307.1	311.6
110°	41.7	54.8	165.2	314.1	333.7



TEST NUMBER: P563894

CATALOG NUMBER: SQ4-PR1-025U-075D-940-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	46.4	58.8	157.2	309.6	339.7
115°	53.4	64.8	147.6	294.6	336.2
117.5°	60.2	70.7	141.1	273.6	319.8
120°	64.2	74.0	138.5	259.6	304.5
122.5°	68.2	78.0	136.5	245.6	289.8
125°	74.2	83.2	134.3	227.0	267.8
127.5°	79.1	88.2	132.5	212.0	246.4
130°	81.7	91.5	131.8	202.6	234.4
132.5°	84.4	94.2	131.1	194.5	223.0
135°	88.4	97.4	130.1	183.2	207.7
137.5°	92.6	101.4	130.0	174.8	194.9
140°	95.9	104.1	129.3	168.1	186.8
142.5°	98.6	106.1	129.3	163.4	179.5
145°	102.6	109.1	128.5	156.3	168.5
147.5°	106.6	113.0	128.5	150.4	160.5
150°	109.3	115.0	128.5	147.0	155.1
152.5°	111.9	116.3	128.5	144.3	150.5
155°	115.9	119.2	128.5	141.1	145.1
157.5°	118.9	122.0	128.5	138.2	141.1
160°	120.9	123.4	128.5	136.8	138.5
162.5°	123.0	124.7	128.5	135.5	137.1
165°	125.1	126.8	128.5	133.5	135.1
167.5°	127.1	127.9	129.3	132.6	133.3
170°	128.5	129.3	129.3	132.6	132.6
172.5°	129.1	129.3	129.3	131.9	131.3
175°	130.1	130.1	129.3	131.0	131.0
177.5°	130.1	130.1	129.5	130.8	130.1
180°	130.1	130.1	130.1	130.1	130.1

(END OF REPORT)