

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: P561791

Luminaire Tested: **SQ4-PR1-025U-075D-92765-1D-UNV-STD-W-4 (3000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561791
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, 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-92765-1D-UNV-STD-W-4 (3000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4811.5 lumens
Efficiency: N/A
Efficacy: 104.8 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

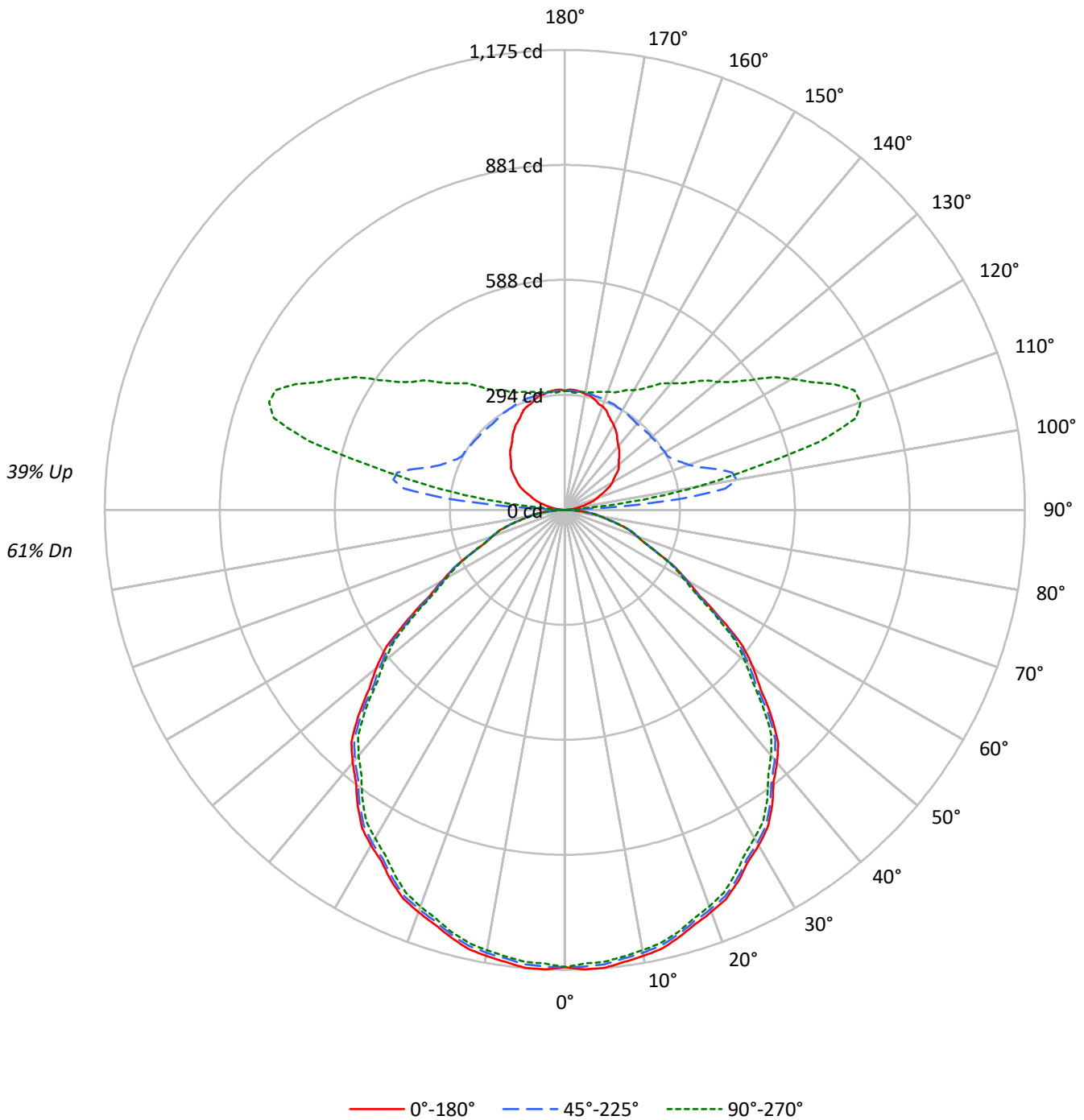
Input Watts (W): 45.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	110	110	110	110	103	103	103	103	89	89	89	77	77	77	66	66	66	61
1	101	96	92	89	94	90	87	84	79	76	74	68	67	65	59	58	56	52
2	92	84	78	73	86	79	74	69	70	65	62	61	58	55	52	50	48	44
3	84	75	67	61	78	70	64	58	62	57	53	54	50	47	47	44	41	38
4	77	66	58	52	72	62	55	50	55	49	45	48	44	40	42	39	36	33
5	71	59	51	45	66	56	49	43	49	44	39	43	39	35	38	34	31	28
6	65	53	45	39	61	50	43	38	45	39	34	39	35	31	34	31	28	25
7	61	48	40	35	57	46	38	33	41	35	30	36	31	27	31	28	25	22
8	56	44	36	31	53	42	34	29	37	31	27	33	28	25	29	25	22	20
9	52	40	33	27	49	38	31	26	34	28	24	30	26	22	27	23	20	18
10	49	37	30	25	46	35	28	24	31	26	22	28	23	20	25	21	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10777	10777	10777
5°	10874	10791	10734
10°	10839	10764	10707
15°	10792	10725	10667
20°	10738	10669	10590
25°	10663	10590	10468
30°	10547	10472	10322
35°	10391	10301	10154
40°	10154	10046	9864
45°	9740	9571	9374
50°	9011	8794	8622
55°	7866	7687	7525
60°	6628	6573	6442
65°	5733	5755	5711
70°	5266	5293	5293
75°	5058	5058	5094
80°	4755	4814	4755
85°	3832	4256	4256



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.5	2.3
10°-20°	316.0	6.6
20°-30°	476.7	9.9
30°-40°	568.0	11.8
40°-50°	560.0	11.6
50°-60°	428.0	8.9
60°-70°	264.8	5.5
70°-80°	150.4	3.1
80°-90°	45.7	1.0
90°-100°	138.8	2.9
100°-110°	394.8	8.2
110°-120°	378.2	7.9
120°-130°	299.4	6.2
130°-140°	240.3	5.0
140°-150°	188.1	3.9
150°-160°	137.6	2.9
160°-170°	85.3	1.8
170°-180°	28.9	0.6
0°-30°	903.2	18.8
0°-40°	1471.2	30.6
0°-60°	2459.1	51.1
0°-90°	2920.1	60.7
90°-120°	911.8	19.0
90°-150°	1639.5	34.1
90°-180°	1891.0	39.3
0°-180°	4811.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1168	1168	1168	1168	1168	
5°	1174	1161	1165	1161	1159	111
15°	1130	1118	1123	1119	1117	319
25°	1047	1035	1040	1029	1028	482
35°	923	912	915	902	902	576
45°	746	737	734	720	718	572
55°	489	481	478	470	468	438
65°	263	261	264	262	262	266
75°	142	142	142	143	143	150
85°	36	38	40	40	40	42
90°	0	0	0	0	0	2
95°	15	60	269	93	57	17
105°	61	93	402	711	676	65
115°	114	138	305	646	759	112
125°	161	178	291	483	578	144
135°	197	213	288	408	461	152
145°	232	244	290	353	385	145
155°	265	271	297	319	332	123
165°	293	294	300	307	311	82
175°	307	305	304	302	300	29
180°	304	304	304	304	304	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	<i>1168.1</i>	1168.1	1168.1	1168.1	1168.1
2.5°	<i>1175.3</i>	<i>1165.1</i>	<i>1168.1</i>	<i>1165.6</i>	<i>1160.1</i>
5°	<i>1174.1</i>	1161.4	1165.1	1161.0	1159.0
7.5°	<i>1165.1</i>	1152.5	1156.2	1152.2	1151.0
10°	<i>1157.0</i>	1145.2	1149.0	1144.9	1142.9
12.5°	<i>1148.2</i>	1135.6	1140.1	1135.3	1133.3
15°	<i>1129.9</i>	1118.1	1122.8	1118.8	1116.8
17.5°	<i>1109.7</i>	1097.2	1101.9	1097.2	1094.7
20°	<i>1093.7</i>	1081.8	1086.6	1079.5	1078.6
22.5°	<i>1075.9</i>	1064.1	1068.9	1059.4	1059.2
25°	<i>1047.4</i>	1034.6	1040.3	1029.2	1028.3
27.5°	<i>1013.4</i>	1001.6	1006.3	995.0	993.8
30°	<i>990.0</i>	978.2	983.0	970.9	968.9
32.5°	<i>963.5</i>	952.4	956.4	944.3	943.1
35°	<i>922.6</i>	911.8	914.6	902.5	901.5
37.5°	<i>876.1</i>	866.3	867.9	854.6	853.6
40°	<i>843.1</i>	833.3	834.1	820.0	819.0
42.5°	<i>806.9</i>	797.1	796.2	782.1	781.1
45°	<i>746.5</i>	736.7	733.5	720.3	718.4
47.5°	<i>677.7</i>	667.9	661.8	651.1	649.8
50°	<i>627.8</i>	618.0	612.7	603.6	600.7
52.5°	<i>573.9</i>	564.1	559.6	551.3	548.3
55°	<i>489.0</i>	481.1	477.9	469.8	467.8
57.5°	<i>408.3</i>	403.0	402.0	394.2	393.4
60°	<i>359.2</i>	356.2	356.2	349.1	349.1
62.5°	<i>317.3</i>	315.2	316.7	312.1	311.3
65°	<i>262.6</i>	260.6	263.6	261.6	261.6
67.5°	<i>219.3</i>	219.3	221.1	220.3	220.3
70°	<i>195.2</i>	195.2	196.2	196.2	196.2
72.5°	<i>173.5</i>	172.7	175.3	175.2	174.5
75°	<i>141.9</i>	141.9	141.9	142.9	142.9
77.5°	<i>110.5</i>	110.7	111.5	111.3	110.5
80°	<i>89.5</i>	90.5	90.6	89.5	89.5
82.5°	<i>68.6</i>	69.6	69.6	69.4	68.6
85°	<i>36.2</i>	38.2	40.2	40.2	40.2
87.5°	<i>10.5</i>	13.6	16.1	16.1	15.3
90°	<i>0.0</i>	0.0	0.0	0.0	0.0
92.5°	<i>4.6</i>	24.6	57.0	16.6	12.5
95°	<i>15.1</i>	59.8	268.6	93.0	57.3
97.5°	<i>27.7</i>	70.0	413.7	296.0	202.8
100°	<i>36.5</i>	76.1	445.1	450.9	347.3
102.5°	<i>46.2</i>	82.6	438.2	577.2	486.7
105°	<i>61.4</i>	93.1	402.3	710.6	675.5
107.5°	<i>76.8</i>	105.2	360.4	748.3	779.5
110°	<i>87.4</i>	114.0	336.3	733.9	804.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	97.6	122.8	320.1	699.8	799.9
115°	114.0	137.8	305.1	646.3	758.9
117.5°	128.5	150.8	296.1	587.7	707.0
120°	140.1	158.8	295.2	554.3	668.6
122.5°	149.3	168.0	292.9	524.9	631.1
125°	160.9	178.5	291.2	483.2	577.7
127.5°	173.5	190.0	290.2	458.3	536.1
130°	180.0	196.4	288.9	440.9	508.8
132.5°	187.0	202.9	288.9	427.3	489.8
135°	196.8	213.2	287.7	408.2	461.4
137.5°	206.1	222.0	287.6	391.9	437.9
140°	213.0	229.4	287.1	378.4	422.6
142.5°	220.9	234.6	288.5	367.7	407.3
145°	232.1	244.0	290.0	353.2	384.9
147.5°	241.7	253.3	292.6	338.7	366.1
150°	250.1	258.0	293.5	333.9	353.1
152.5°	256.6	264.9	294.4	327.3	345.2
155°	265.1	271.3	297.0	319.3	332.3
157.5°	275.8	279.5	297.5	315.6	324.9
160°	281.3	284.2	299.9	312.8	320.7
162.5°	284.6	287.9	300.3	310.4	316.5
165°	292.9	294.0	300.4	306.9	311.4
167.5°	298.6	297.6	303.1	306.0	307.8
170°	300.4	299.9	302.2	302.8	305.1
172.5°	304.6	302.7	303.6	301.9	303.7
175°	306.8	305.1	303.9	302.1	299.9
177.5°	307.7	305.0	303.6	301.7	302.2
180°	304.5	304.5	304.5	304.5	304.5

(END OF REPORT)