

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: P561896

Luminaire Tested: **SQ4-PR1-075U-075D-92765-1D-UNV-STD-W-4 (3500K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561896
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-PR1-075U-075D-92765-1D-UNV-STD-W-4 (3500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

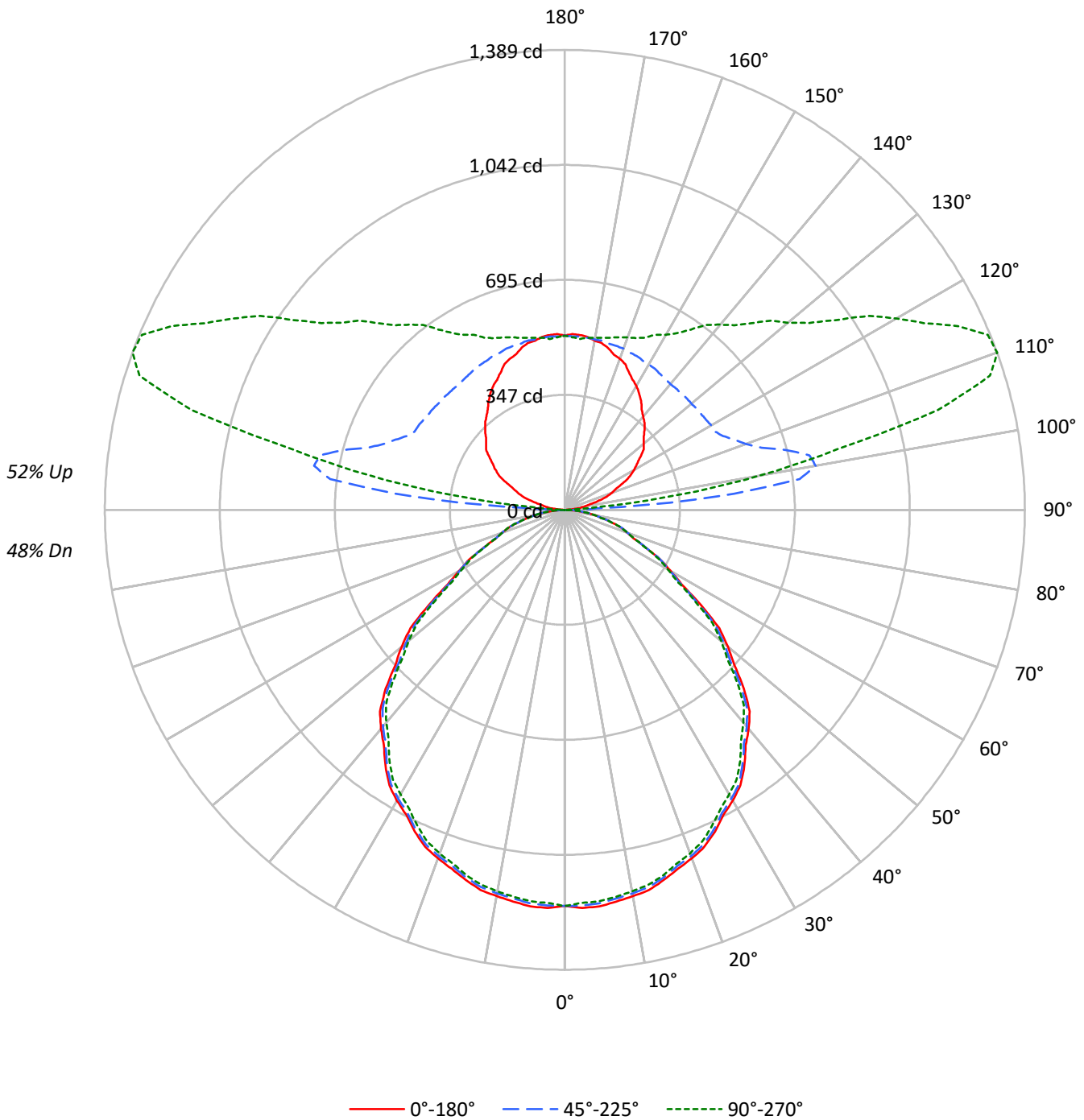
Lumens per Lamp: N/A
Luminaire Lumens: 6257.6 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 55.6
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	107	107	107	107	98	98	98	98	82	82	82	67	67	67	54	54	54	48				
1	98	93	90	86	90	86	83	80	72	70	68	60	58	57	48	47	46	41				
2	89	82	76	71	82	76	70	66	64	60	57	53	50	48	43	41	39	35				
3	81	72	65	59	75	67	60	55	56	52	48	47	44	41	38	36	34	30				
4	75	64	56	50	68	59	52	47	50	45	41	42	38	35	34	32	29	26				
5	68	57	49	43	63	53	46	41	45	40	36	38	34	31	31	28	26	22				
6	63	51	43	38	58	48	41	35	41	35	31	34	30	27	28	25	23	20				
7	58	46	38	33	54	43	36	31	37	31	27	31	27	24	26	23	20	18				
8	54	42	34	29	50	39	32	28	34	28	24	28	24	21	24	20	18	16				
9	50	38	31	26	46	36	29	25	31	26	22	26	22	19	22	19	16	14				
10	47	35	28	23	43	33	26	22	28	23	20	24	20	17	20	17	15	13				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11035	11035	11035
5°	11135	11049	10992
10°	11100	11023	10965
15°	11051	10983	10923
20°	10996	10925	10843
25°	10918	10845	10719
30°	10801	10724	10569
35°	10640	10548	10397
40°	10399	10287	10100
45°	9975	9800	9598
50°	9228	9005	8829
55°	8054	7872	7707
60°	6787	6730	6597
65°	5870	5892	5849
70°	5392	5419	5419
75°	5180	5180	5215
80°	4872	4925	4872
85°	3927	4361	4361



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.1	1.8
10°-20°	323.6	5.2
20°-30°	488.1	7.8
30°-40°	581.6	9.3
40°-50°	573.4	9.2
50°-60°	438.2	7.0
60°-70°	271.2	4.3
70°-80°	154.0	2.5
80°-90°	46.9	0.7
90°-100°	239.7	3.8
100°-110°	682.0	10.9
110°-120°	653.4	10.4
120°-130°	517.2	8.3
130°-140°	415.1	6.6
140°-150°	325.0	5.2
150°-160°	237.8	3.8
160°-170°	147.3	2.4
170°-180°	50.0	0.8
0°-30°	924.9	14.8
0°-40°	1506.5	24.1
0°-60°	2518.1	40.2
0°-90°	2990.2	47.8
90°-120°	1575.1	25.2
90°-150°	2832.3	45.3
90°-180°	3267.0	52.2
0°-180°	6257.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1196	1196	1196	1196	1196	
5°	1202	1189	1193	1189	1187	114
15°	1157	1145	1150	1146	1144	326
25°	1072	1059	1065	1054	1053	494
35°	945	934	936	924	923	590
45°	764	754	751	738	736	586
55°	501	493	489	481	479	449
65°	269	267	270	268	268	272
75°	145	145	145	146	146	153
85°	37	39	41	41	41	43
90°	0	0	0	0	0	3
95°	26	103	464	161	99	30
105°	106	161	695	1228	1167	112
115°	197	238	527	1116	1311	194
125°	278	308	503	835	998	249
135°	340	368	497	705	797	262
145°	401	422	501	610	665	250
155°	458	469	513	552	574	212
165°	506	508	519	530	538	142
175°	530	527	525	522	518	50
180°	526	526	526	526	526	

TEST NUMBER: P561896

CATALOG NUMBER: SQ4-PR1-075U-075D-92765-1D-UNV-STD-W-4 (3500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1196.1	1196.1	1196.1	1196.1	1196.1
2.5°	1203.6	1193.1	1196.1	1193.5	1187.9
5°	1202.3	1189.2	1193.0	1188.9	1186.9
7.5°	1193.0	1180.1	1184.0	1179.8	1178.6
10°	1184.8	1172.7	1176.6	1172.4	1170.4
12.5°	1175.7	1162.8	1167.5	1162.5	1160.5
15°	1157.0	1144.9	1149.8	1145.6	1143.6
17.5°	1136.4	1123.5	1128.3	1123.5	1120.9
20°	1119.9	1107.8	1112.7	1105.4	1104.4
22.5°	1101.8	1089.7	1094.5	1084.9	1084.7
25°	1072.5	1059.4	1065.3	1053.9	1052.9
27.5°	1037.7	1025.6	1030.5	1018.9	1017.7
30°	1013.8	1001.7	1006.6	994.2	992.1
32.5°	986.6	975.3	979.4	967.0	965.8
35°	944.7	933.7	936.5	924.1	923.1
37.5°	897.2	887.1	888.7	875.1	874.1
40°	863.4	853.3	854.1	839.6	838.6
42.5°	826.3	816.2	815.3	800.9	799.9
45°	764.5	754.4	751.1	737.6	735.6
47.5°	694.0	683.9	677.7	666.8	665.3
50°	642.9	632.8	627.4	618.1	615.1
52.5°	587.7	577.6	573.0	564.5	561.5
55°	500.7	492.6	489.4	481.1	479.1
57.5°	418.1	412.6	411.7	403.6	402.8
60°	367.8	364.8	364.7	357.5	357.5
62.5°	324.9	322.7	324.3	319.6	318.8
65°	268.9	266.9	269.9	267.9	267.9
67.5°	224.6	224.6	226.5	225.6	225.6
70°	199.9	199.9	200.9	200.9	200.9
72.5°	177.6	176.8	179.5	179.5	178.6
75°	145.3	145.3	145.3	146.3	146.3
77.5°	113.1	113.3	114.2	113.9	113.1
80°	91.7	92.7	92.7	91.7	91.7
82.5°	70.3	71.3	71.3	71.1	70.3
85°	37.1	39.1	41.2	41.2	41.2
87.5°	10.7	13.9	16.5	16.5	15.7
90°	0.0	0.0	0.0	0.0	0.0
92.5°	8.0	42.4	98.4	28.6	21.6
95°	26.0	103.2	464.0	160.6	99.0
97.5°	47.8	120.9	714.6	511.3	350.4
100°	63.0	131.4	769.0	778.9	600.0
102.5°	79.8	142.8	757.0	997.0	840.8
105°	106.0	160.8	695.0	1227.6	1167.0
107.5°	132.6	181.7	622.6	1292.6	1346.6
110°	151.0	197.0	581.0	1267.8	1389.0

TEST NUMBER: P561896

CATALOG NUMBER: SQ4-PR1-075U-075D-92765-1D-UNV-STD-W-4 (3500K)

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	168.6	212.2	553.0	1208.9	<i>1381.8</i>
115°	197.0	238.1	527.0	1116.4	<i>1311.0</i>
117.5°	222.0	260.5	511.6	1015.3	<i>1221.4</i>
120°	242.0	274.3	510.0	957.5	<i>1155.0</i>
122.5°	258.0	290.3	506.0	906.8	<i>1090.2</i>
125°	278.0	308.3	503.0	834.7	<i>998.0</i>
127.5°	299.8	328.2	501.4	791.7	<i>926.2</i>
130°	311.0	339.4	499.0	761.7	<i>879.0</i>
132.5°	323.0	350.6	499.0	738.3	<i>846.2</i>
135°	340.0	368.4	497.0	705.1	<i>797.0</i>
137.5°	356.0	383.6	496.8	677.0	<i>756.4</i>
140°	368.0	396.4	496.0	653.7	<i>730.0</i>
142.5°	381.6	405.3	498.4	635.2	<i>703.6</i>
145°	401.0	421.5	501.0	610.2	<i>665.0</i>
147.5°	417.6	437.5	505.4	585.1	<i>632.4</i>
150°	432.0	445.7	507.0	576.8	<i>610.0</i>
152.5°	443.2	457.7	508.6	565.5	<i>596.4</i>
155°	458.0	468.8	513.0	551.5	<i>574.0</i>
157.5°	476.4	482.9	514.0	545.2	<i>561.2</i>
160°	486.0	490.9	518.0	540.3	<i>554.0</i>
162.5°	491.6	497.3	518.8	536.2	<i>546.8</i>
165°	506.0	508.0	519.0	530.2	<i>538.0</i>
167.5°	515.8	514.0	523.6	528.7	<i>531.8</i>
170°	519.0	518.0	522.0	523.1	<i>527.0</i>
172.5°	526.2	522.9	524.4	521.5	<i>524.6</i>
175°	530.0	527.1	525.0	521.9	<i>518.0</i>
177.5°	531.6	526.9	524.4	521.2	<i>522.0</i>
180°	526.0	526.0	526.0	526.0	<i>526.0</i>

(END OF REPORT)