

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: P564648

Luminaire Tested: **SQ4-PW1-050U-075D-835-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564648
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, 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-PW1-050U-075D-835-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

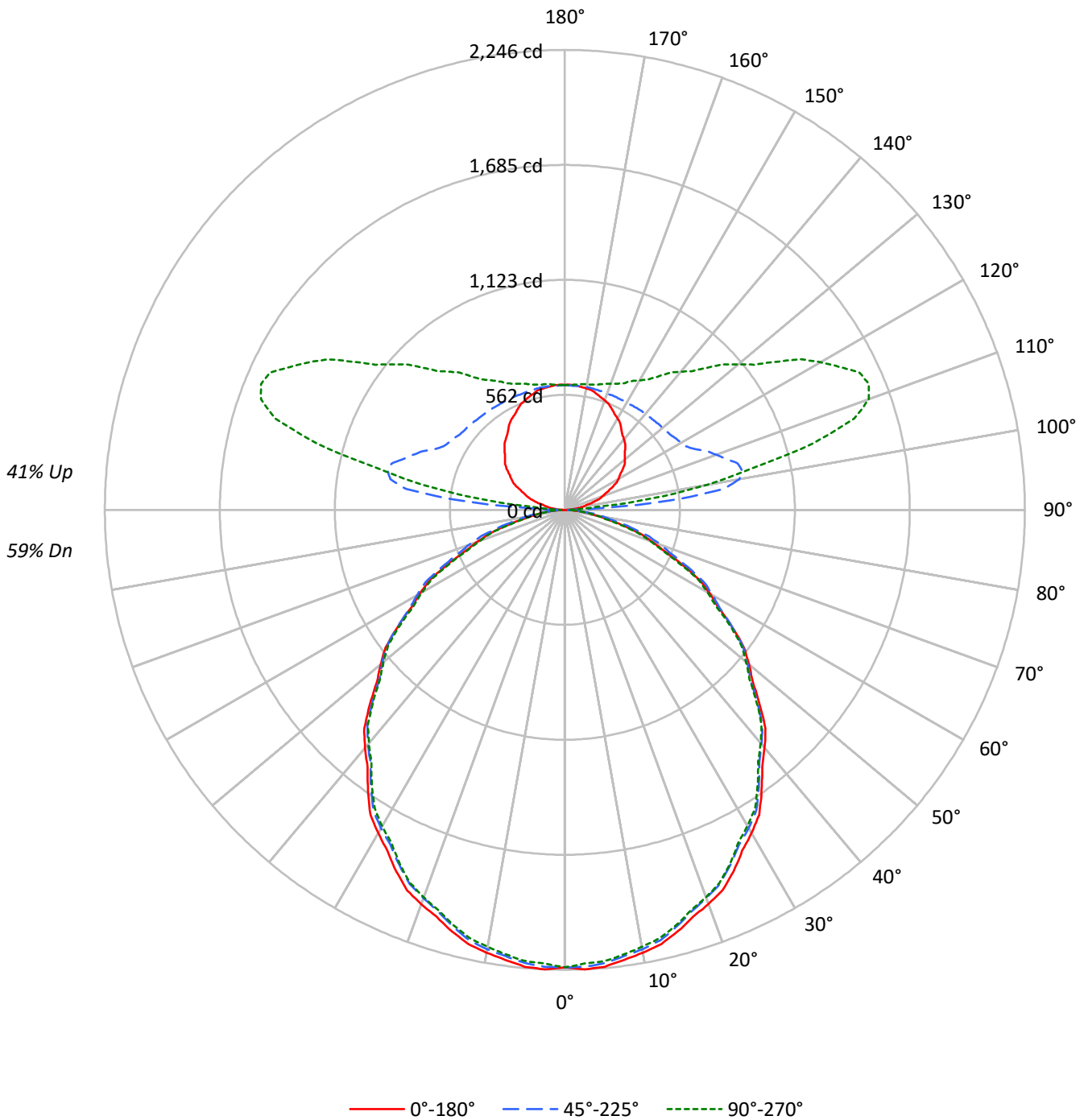
Lumens per Lamp: N/A
Luminaire Lumens: 9669.6 lumens
Efficiency: N/A
Efficacy: 123.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 78.1
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	109	109	109	109	102	102	102	102	88	88	88	76	76	76	64	64	64	59
1	100	96	92	88	93	89	86	83	78	75	73	67	65	63	57	56	55	50
2	91	84	77	72	85	78	73	68	68	64	60	59	56	53	50	48	46	42
3	83	74	66	60	77	69	62	57	60	55	51	52	48	45	45	42	39	36
4	76	65	57	51	71	61	54	48	54	48	43	46	42	39	40	37	34	31
5	70	58	50	44	65	55	47	42	48	42	38	42	37	34	36	32	30	27
6	64	52	44	38	60	49	42	36	43	37	33	38	33	29	33	29	26	23
7	60	47	39	33	55	44	37	32	39	33	29	34	30	26	30	26	23	21
8	55	43	35	30	52	40	33	28	36	30	26	31	27	23	27	24	21	19
9	52	39	32	26	48	37	30	25	33	27	23	29	24	21	25	22	19	17
10	48	36	29	24	45	34	27	23	30	25	21	27	22	19	23	20	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10305	10305	10305
5°	10371	10289	10244
10°	10289	10206	10150
15°	10180	10067	10029
20°	10058	9903	9884
25°	9917	9737	9707
30°	9708	9561	9498
35°	9432	9299	9244
40°	9138	8996	8960
45°	8782	8667	8629
50°	8418	8348	8291
55°	8025	8025	7899
60°	7536	7681	7409
65°	6896	7240	6724
70°	6079	6663	5920
75°	5192	5964	5051
80°	4025	5018	4078
85°	2604	3853	3435



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.3	2.2
10°-20°	593.9	6.1
20°-30°	880.9	9.1
30°-40°	1030.8	10.7
40°-50°	1026.2	10.6
50°-60°	886.1	9.2
60°-70°	637.9	6.6
70°-80°	334.5	3.5
80°-90°	85.3	0.9
90°-100°	292.9	3.0
100°-110°	795.7	8.2
110°-120°	818.1	8.5
120°-130°	654.1	6.8
130°-140°	513.9	5.3
140°-150°	394.1	4.1
150°-160°	283.4	2.9
160°-170°	173.3	1.8
170°-180°	58.4	0.6
0°-30°	1685.1	17.4
0°-40°	2715.9	28.1
0°-60°	4628.2	47.9
0°-90°	5685.8	58.8
90°-120°	1906.7	19.7
90°-150°	3468.7	35.9
90°-180°	3984.0	41.2
0°-180°	9669.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2234	2234	2234	2234	2234	
5°	2240	2215	2222	2216	2212	212
15°	2132	2104	2108	2104	2100	601
25°	1948	1916	1913	1901	1907	896
35°	1675	1652	1651	1636	1641	1047
45°	1346	1335	1328	1324	1323	1039
55°	998	996	998	984	982	890
65°	632	651	663	637	616	626
75°	291	318	335	312	283	312
85°	49	65	73	69	65	65
90°	2	8	14	18	18	5
95°	43	160	510	222	149	46
105°	141	220	875	1332	1254	150
115°	251	305	700	1393	1587	248
125°	345	393	634	1068	1260	308
135°	416	462	616	870	981	322
145°	481	515	608	739	795	302
155°	543	563	604	664	683	251
165°	589	596	606	632	634	166
175°	610	612	608	616	614	58
180°	610	610	610	610	610	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2233.8	2233.8	2233.8	2233.8	2233.8
2.5°	2246.4	2227.9	2233.8	2228.9	2218.1
5°	2239.7	2214.7	2222.0	2216.0	2212.2
7.5°	2216.9	2193.8	2199.2	2192.8	2190.5
10°	2196.4	2173.3	2178.7	2170.8	2166.9
12.5°	2172.8	2148.2	2153.5	2145.6	2143.3
15°	2131.5	2104.5	2107.9	2103.8	2100.0
17.5°	2083.5	2056.1	2056.7	2050.4	2049.6
20°	2048.8	2020.0	2017.3	2009.5	2013.4
22.5°	2011.0	1980.6	1978.0	1967.1	1972.5
25°	1948.4	1915.7	1913.0	1901.3	1907.1
27.5°	1876.0	1843.7	1843.7	1827.3	1833.5
30°	1822.5	1791.7	1794.9	1775.4	1783.1
32.5°	1765.8	1738.1	1739.8	1720.3	1728.0
35°	1674.9	1651.8	1651.3	1635.6	1641.4
37.5°	1582.0	1561.6	1558.4	1549.3	1550.9
40°	1517.4	1500.1	1493.8	1487.9	1487.9
42.5°	1449.7	1433.9	1427.7	1423.3	1421.8
45°	1346.2	1334.7	1328.5	1324.5	1322.6
47.5°	1243.9	1233.1	1227.7	1224.9	1223.0
50°	1173.0	1165.3	1163.2	1157.2	1155.3
52.5°	1102.2	1097.5	1095.5	1087.9	1086.0
55°	997.8	995.9	997.8	984.0	982.1
57.5°	889.2	892.3	898.6	880.0	875.4
60°	816.8	824.5	832.5	810.7	803.0
62.5°	742.8	755.1	766.4	741.3	730.6
65°	631.8	651.0	663.3	637.2	616.0
67.5°	524.7	548.6	563.3	535.2	511.3
70°	450.7	477.6	494.0	465.8	438.9
72.5°	386.1	416.2	429.4	402.9	375.9
75°	291.3	318.2	334.6	312.3	283.4
77.5°	206.7	232.1	245.6	226.2	202.3
80°	151.5	178.5	188.9	172.8	153.5
82.5°	107.5	129.8	137.0	127.2	114.2
85°	49.2	64.6	72.8	68.8	64.9
87.5°	13.0	24.9	32.7	33.5	35.0
90°	2.0	7.7	13.7	17.7	17.7
92.5°	17.7	80.2	139.3	59.8	50.6
95°	43.2	160.2	510.1	222.0	149.1
97.5°	71.4	176.9	782.0	608.4	427.3
100°	90.2	188.1	865.2	877.1	708.2
102.5°	109.1	199.2	887.2	1084.7	935.8
105°	141.3	219.9	875.0	1332.3	1253.6
107.5°	174.6	244.1	824.4	1460.1	1482.0
110°	198.2	261.5	786.7	1485.3	1579.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	218.6	278.8	749.1	1464.4	1606.0
115°	251.1	304.8	700.4	1393.4	1587.2
117.5°	281.7	333.1	669.4	1292.7	1511.0
120°	302.1	352.0	655.3	1225.2	1442.0
122.5°	319.4	369.3	645.9	1157.6	1366.7
125°	345.3	393.3	633.7	1067.7	1259.5
127.5°	368.4	416.0	627.0	999.6	1164.2
130°	382.6	428.6	623.9	956.8	1104.5
132.5°	396.7	442.7	620.7	920.4	1051.2
135°	415.9	462.0	616.0	869.7	980.9
137.5°	436.7	478.5	613.7	824.9	918.6
140°	449.3	489.6	612.1	796.5	880.9
142.5°	461.8	499.0	610.5	774.2	844.8
145°	480.7	515.2	608.2	738.9	794.6
147.5°	501.9	531.4	606.2	711.2	754.9
150°	516.0	540.9	606.2	695.3	729.8
152.5°	527.0	548.8	604.7	681.0	709.4
155°	543.4	562.6	604.3	663.6	682.7
157.5°	559.5	574.5	604.3	651.7	666.3
160°	568.9	582.4	604.3	643.8	655.3
162.5°	578.4	588.7	605.8	637.4	645.9
165°	588.6	596.2	606.2	631.8	633.7
167.5°	599.2	603.0	608.2	625.1	626.6
170°	602.3	606.1	608.2	621.9	621.9
172.5°	605.4	607.7	608.2	618.8	618.8
175°	610.1	612.1	608.2	616.0	614.1
177.5°	611.7	611.7	607.0	613.2	610.1
180°	610.1	610.1	610.1	610.1	610.1

(END OF REPORT)