

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: P562284

Luminaire Tested: **SQ4-PW1-075U-125D-92765-1D-UNV-STD-W-4 (2700K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562284
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, 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-PW1-075U-125D-92765-1D-UNV-STD-W-4 (2700K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

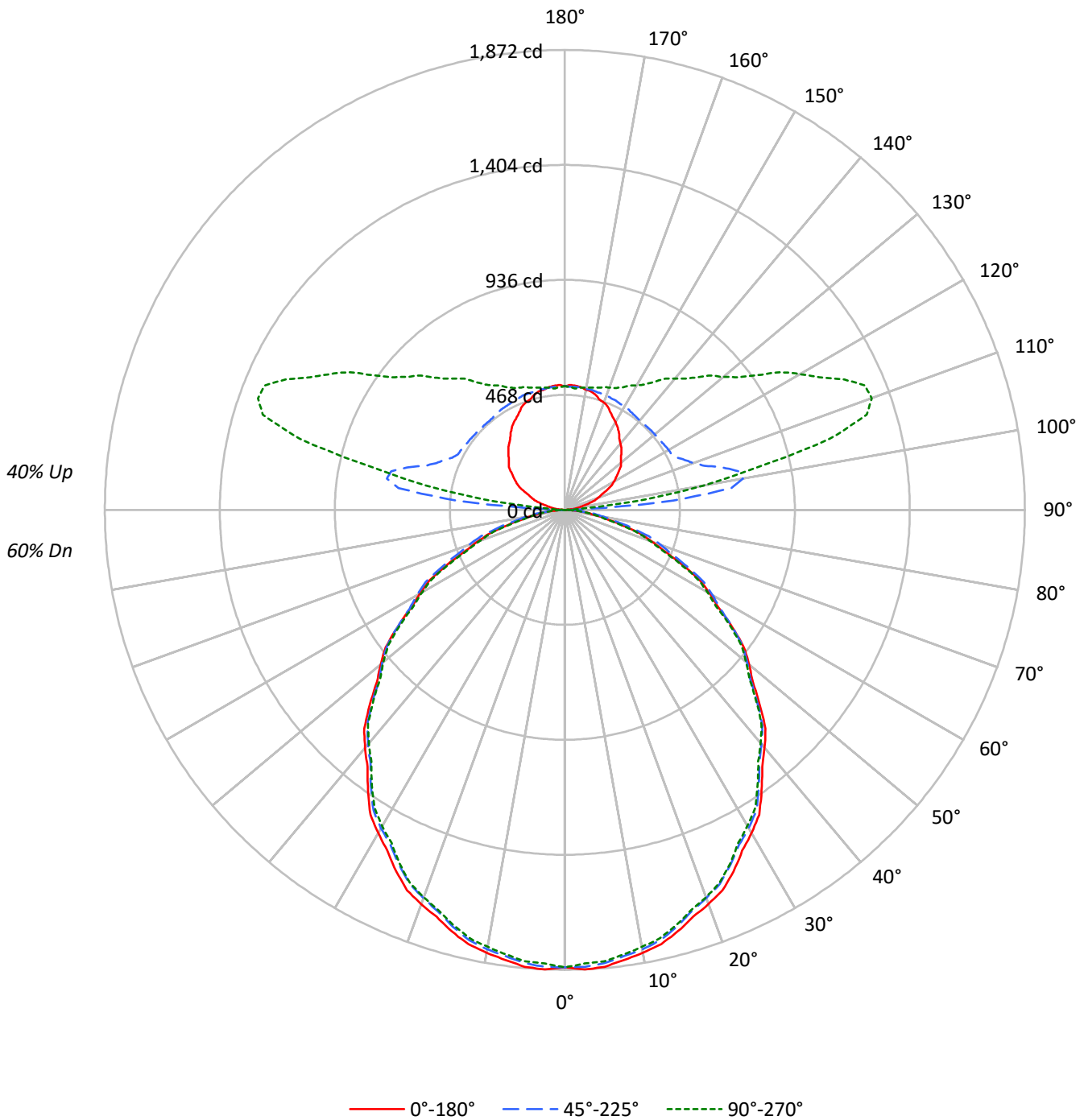
Lumens per Lamp: N/A
Luminaire Lumens: 7863.4 lumens
Efficiency: N/A
Efficacy: 99.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 79.2
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	102	102	102	102	89	89	89	77	77	77	66	66	66	60
1	100	96	92	88	94	90	86	83	78	76	74	68	66	64	58	57	56	51
2	91	84	78	72	85	79	73	69	69	65	61	60	57	54	51	49	47	43
3	83	74	66	60	78	69	63	57	61	56	51	53	49	46	46	43	40	36
4	76	65	57	51	71	61	54	49	54	48	44	47	43	39	41	37	35	31
5	70	58	50	44	65	55	48	42	48	42	38	42	38	34	37	33	30	27
6	65	52	44	38	60	49	42	37	44	38	33	38	34	30	33	30	27	24
7	60	47	39	34	56	45	37	32	40	34	29	35	30	26	30	27	24	21
8	56	43	35	30	52	41	34	29	36	30	26	32	27	24	28	24	21	19
9	52	39	32	27	48	37	30	26	33	27	23	29	25	21	26	22	19	17
10	48	36	29	24	45	34	28	23	31	25	21	27	23	19	24	20	17	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17179	17179	17179
5°	17290	17154	17078
10°	17152	17014	16921
15°	16970	16782	16719
20°	16768	16510	16478
25°	16533	16233	16183
30°	16184	15940	15834
35°	15724	15503	15410
40°	15233	14997	14937
45°	14641	14449	14384
50°	14035	13917	13822
55°	13378	13378	13168
60°	12562	12804	12350
65°	11496	12070	11210
70°	10135	11109	9868
75°	8655	9942	8420
80°	6711	8368	6801
85°	4340	6426	5727



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.3	2.2
10°-20°	495.0	6.3
20°-30°	734.3	9.3
30°-40°	859.2	10.9
40°-50°	855.3	10.9
50°-60°	738.6	9.4
60°-70°	531.7	6.8
70°-80°	278.8	3.5
80°-90°	69.1	0.9
90°-100°	229.3	2.9
100°-110°	652.5	8.3
110°-120°	625.2	8.0
120°-130°	494.8	6.3
130°-140°	397.1	5.1
140°-150°	310.9	4.0
150°-160°	227.5	2.9
160°-170°	140.9	1.8
170°-180°	47.8	0.6
0°-30°	1404.6	17.9
0°-40°	2263.8	28.8
0°-60°	3857.8	49.1
0°-90°	4737.4	60.2
90°-120°	1507.0	19.2
90°-150°	2709.8	34.5
90°-180°	3126.0	39.8
0°-180°	7863.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1862	1862	1862	1862	1862	
5°	1867	1846	1852	1847	1844	177
15°	1777	1754	1757	1754	1750	501
25°	1624	1597	1595	1585	1590	747
35°	1396	1377	1376	1363	1368	873
45°	1122	1112	1107	1104	1102	866
55°	832	830	832	820	819	742
65°	527	543	553	531	514	522
75°	243	265	279	260	236	260
85°	41	54	61	57	54	54
90°	0	0	0	0	0	2
95°	25	99	444	154	95	28
105°	101	154	665	1174	1116	107
115°	188	228	504	1068	1254	186
125°	266	295	481	799	955	238
135°	325	352	476	675	762	251
145°	384	403	479	584	636	240
155°	438	448	491	528	549	203
165°	484	486	496	507	515	136
175°	507	504	502	499	496	48
180°	503	503	503	503	503	

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CATALOG NUMBER: SQ4-PW1-075U-125D-92765-1D-UNV-STD-W-4 (2700K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1862.0	1862.0	1862.0	1862.0	1862.0
2.5°	1872.5	1857.1	1862.0	1857.9	1848.9
5°	1866.9	1846.1	1852.2	1847.2	1844.0
7.5°	1847.9	1828.6	1833.1	1827.8	1825.9
10°	1830.8	1811.6	1816.1	1809.4	1806.2
12.5°	1811.1	1790.6	1795.1	1788.5	1786.5
15°	1776.7	1754.2	1757.0	1753.7	1750.4
17.5°	1736.7	1713.9	1714.4	1709.1	1708.4
20°	1707.8	1683.7	1681.5	1675.1	1678.3
22.5°	1676.3	1650.9	1648.7	1639.6	1644.1
25°	1624.1	1596.9	1594.6	1584.9	1589.7
27.5°	1563.8	1536.8	1536.8	1523.2	1528.3
30°	1519.1	1493.5	1496.2	1479.9	1486.3
32.5°	1471.9	1448.8	1450.2	1434.0	1440.4
35°	1396.1	1376.8	1376.4	1363.4	1368.2
37.5°	1318.7	1301.7	1299.0	1291.5	1292.7
40°	1264.8	1250.4	1245.2	1240.2	1240.2
42.5°	1208.4	1195.3	1190.0	1186.4	1185.1
45°	1122.1	1112.5	1107.4	1104.0	1102.4
47.5°	1036.8	1027.8	1023.4	1021.0	1019.4
50°	977.8	971.3	969.6	964.6	963.0
52.5°	918.7	914.8	913.1	906.8	905.2
55°	831.7	830.1	831.7	820.2	818.6
57.5°	741.2	743.8	749.1	733.6	729.7
60°	680.8	687.2	693.9	675.8	669.3
62.5°	619.1	629.4	638.8	617.9	609.0
65°	526.6	542.6	552.9	531.1	513.5
67.5°	437.4	457.3	469.5	446.1	426.2
70°	375.7	398.1	411.8	388.3	365.8
72.5°	321.9	346.9	358.0	335.8	313.3
75°	242.8	265.3	278.9	260.3	236.2
77.5°	172.3	193.4	204.7	188.5	168.6
80°	126.3	148.8	157.5	144.0	128.0
82.5°	89.6	108.2	114.2	106.1	95.2
85°	41.0	53.8	60.7	57.3	54.1
87.5°	10.5	19.5	24.9	25.0	26.2
90°	0.0	0.0	0.0	0.0	0.0
92.5°	7.7	40.6	94.1	27.4	20.7
95°	24.9	98.8	443.9	153.7	94.7
97.5°	45.7	115.7	683.7	489.2	335.2
100°	60.3	125.8	735.7	745.2	574.0
102.5°	76.3	136.6	724.3	953.9	804.4
105°	101.4	153.8	664.9	1174.5	1116.5
107.5°	126.9	173.8	595.7	1236.7	1288.3
110°	144.5	188.4	555.9	1212.9	1328.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	161.3	203.0	529.1	1156.6	1322.0
115°	188.5	227.8	504.2	1068.1	1254.3
117.5°	212.4	249.3	489.5	971.4	1168.6
120°	231.5	262.4	487.9	916.1	1105.0
122.5°	246.8	277.7	484.1	867.5	1043.0
125°	266.0	295.0	481.2	798.6	954.8
127.5°	286.8	314.0	479.7	757.4	886.1
130°	297.5	324.7	477.4	728.7	841.0
132.5°	309.0	335.4	477.4	706.3	809.6
135°	325.3	352.4	475.5	674.6	762.5
137.5°	340.6	367.0	475.3	647.7	723.7
140°	352.1	379.2	474.5	625.5	698.4
142.5°	365.1	387.7	476.8	607.7	673.2
145°	383.7	403.3	479.3	583.8	636.2
147.5°	399.5	418.6	483.5	559.8	605.0
150°	413.3	426.4	485.1	551.8	583.6
152.5°	424.0	437.9	486.6	541.0	570.6
155°	438.2	448.5	490.8	527.7	549.2
157.5°	455.8	462.0	491.8	521.6	536.9
160°	465.0	469.7	495.6	516.9	530.0
162.5°	470.3	475.8	496.4	513.0	523.1
165°	484.1	486.0	496.5	507.2	514.7
167.5°	493.5	491.8	500.9	505.8	508.8
170°	496.5	495.6	499.4	500.5	504.2
172.5°	503.4	500.3	501.7	498.9	501.9
175°	507.1	504.3	502.3	499.3	495.6
177.5°	508.6	504.1	501.7	498.7	499.4
180°	503.2	503.2	503.2	503.2	503.2

(END OF REPORT)