

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: P564792

Luminaire Tested: **SQ4-PW1-075U-125D-835-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564792
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-835-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

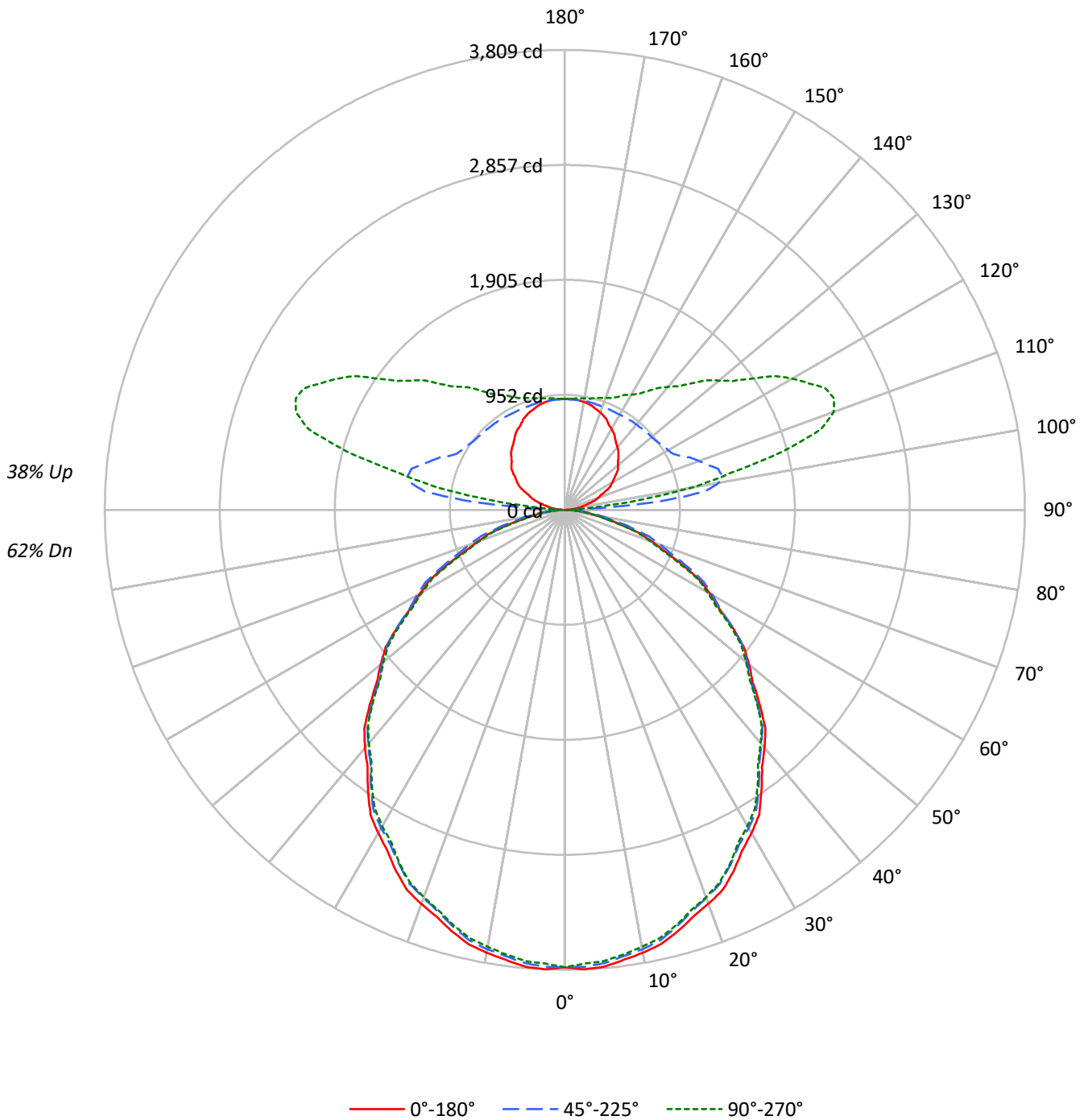
Lumens per Lamp: N/A
Luminaire Lumens: 15626.7 lumens
Efficiency: N/A
Efficacy: 122.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 127.7
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	90	90	90	78	78	78	67	67	67	62
1	101	96	92	89	94	90	87	84	79	77	74	69	67	65	59	58	57	52
2	92	84	78	73	86	79	74	69	69	65	62	61	57	55	52	50	48	44
3	84	74	67	61	78	70	63	58	61	56	52	54	50	46	46	43	41	37
4	77	66	58	51	71	62	55	49	55	49	44	48	43	40	42	38	35	32
5	70	59	50	44	66	55	48	42	49	43	38	43	38	35	37	34	31	28
6	65	53	44	38	61	50	42	37	44	38	34	39	34	30	34	30	27	24
7	60	48	39	34	56	45	38	32	40	34	30	35	31	27	31	27	24	22
8	56	43	35	30	52	41	34	29	37	31	26	32	28	24	29	25	22	19
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	26	22	20	18
10	49	36	29	24	46	35	28	23	31	25	21	28	23	20	24	21	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17473	17473	17473
5°	17586	17447	17370
10°	17446	17305	17211
15°	17260	17069	17005
20°	17054	16792	16759
25°	16816	16510	16460
30°	16461	16212	16105
35°	15993	15768	15674
40°	15494	15253	15193
45°	14891	14696	14631
50°	14274	14155	14058
55°	13607	13607	13393
60°	12777	13024	12562
65°	11693	12276	11401
70°	10307	11297	10038
75°	8803	10111	8566
80°	6827	8512	6915
85°	4414	6537	5828



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	356.7	2.3
10°-20°	1007.0	6.4
20°-30°	1493.7	9.6
30°-40°	1747.8	11.2
40°-50°	1740.0	11.1
50°-60°	1502.5	9.6
60°-70°	1081.5	6.9
70°-80°	567.2	3.6
80°-90°	143.0	0.9
90°-100°	433.5	2.8
100°-110°	1192.6	7.6
110°-120°	1231.0	7.9
120°-130°	986.3	6.3
130°-140°	774.7	5.0
140°-150°	593.7	3.8
150°-160°	426.8	2.7
160°-170°	261.0	1.7
170°-180°	88.0	0.6
0°-30°	2857.3	18.3
0°-40°	4605.1	29.5
0°-60°	7847.5	50.2
0°-90°	9639.2	61.7
90°-120°	2857.1	18.3
90°-150°	5211.7	33.4
90°-180°	5988.0	38.3
0°-180°	15626.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3788	3788	3788	3788	3788	
5°	3798	3755	3768	3758	3751	360
15°	3614	3568	3574	3567	3561	1019
25°	3304	3248	3244	3224	3234	1519
35°	2840	2801	2800	2773	2783	1775
45°	2283	2263	2253	2246	2243	1761
55°	1692	1689	1692	1668	1665	1510
65°	1071	1104	1125	1080	1044	1062
75°	494	540	567	530	481	529
85°	83	110	124	117	110	110
90°	2	8	14	18	18	7
95°	64	237	767	328	209	68
105°	213	328	1314	2001	1868	225
115°	377	460	1054	2099	2382	372
125°	520	593	956	1618	1895	464
135°	628	697	929	1308	1480	484
145°	726	775	915	1115	1201	455
155°	821	848	909	1002	1031	377
165°	888	899	913	950	956	250
175°	919	921	915	927	925	87
180°	919	919	919	919	919	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3787.7	3787.7	3787.7	3787.7	3787.7
2.5°	3809.0	3777.7	3787.7	3779.3	3761.0
5°	3797.7	3755.3	3767.7	3757.5	3751.0
7.5°	3759.0	3719.8	3728.9	3718.2	3714.3
10°	3724.3	3685.1	3694.2	3680.7	3674.2
12.5°	3684.2	3642.5	3651.5	3638.1	3634.2
15°	3614.1	3568.5	3574.1	3567.3	3560.7
17.5°	3532.7	3486.4	3487.3	3476.6	3475.3
20°	3474.0	3425.0	3420.6	3407.4	3413.9
22.5°	3409.9	3358.4	3353.8	3335.4	3344.5
25°	3303.8	3248.3	3243.7	3223.9	3233.7
27.5°	3181.0	3126.2	3126.3	3098.5	3108.9
30°	3090.2	3038.0	3043.5	3010.4	3023.5
32.5°	2994.1	2947.1	2950.0	2917.0	2930.0
35°	2839.9	2800.8	2799.9	2773.4	2783.2
37.5°	2682.4	2647.8	2642.4	2627.1	2629.7
40°	2572.9	2543.6	2532.9	2522.9	2522.9
42.5°	2458.2	2431.4	2420.8	2413.4	2410.8
45°	2282.6	2263.0	2252.6	2245.8	2242.6
47.5°	2109.1	2090.8	2081.7	2077.0	2073.7
50°	1988.9	1975.9	1972.3	1962.2	1958.9
52.5°	1868.8	1861.0	1857.5	1844.7	1841.4
55°	1691.9	1688.7	1691.9	1668.5	1665.2
57.5°	1507.7	1512.9	1523.7	1492.2	1484.4
60°	1384.9	1398.0	1411.6	1374.6	1361.6
62.5°	1259.4	1280.3	1299.5	1257.0	1238.8
65°	1071.2	1103.9	1124.6	1080.4	1044.5
67.5°	889.7	930.1	955.1	907.5	867.0
70°	764.2	809.9	837.6	789.9	744.2
72.5°	654.8	705.7	728.2	683.1	637.4
75°	493.9	539.6	567.3	529.5	480.6
77.5°	350.4	393.5	416.5	383.5	343.1
80°	257.0	302.6	320.4	292.9	260.3
82.5°	182.2	220.1	232.3	215.7	193.6
85°	83.4	109.5	123.5	116.7	110.1
87.5°	21.7	41.2	53.5	54.3	56.9
90°	2.0	7.7	13.7	17.6	17.6
92.5°	27.0	115.3	199.9	76.7	63.0
95°	64.5	236.6	766.6	327.8	209.2
97.5°	105.2	262.4	1169.8	901.3	635.9
100°	134.9	278.3	1296.5	1308.6	1067.7
102.5°	163.1	297.3	1329.4	1623.5	1402.5
105°	213.2	327.9	1314.1	2001.4	1867.5
107.5°	260.9	365.6	1239.4	2186.4	2226.2
110°	295.3	390.9	1183.1	2232.4	2370.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	326.6	419.1	1126.8	2202.8	2412.3
115°	377.4	459.6	1054.0	2098.8	2381.8
117.5°	425.9	501.6	1007.9	1953.0	2273.1
120°	455.6	528.3	987.5	1843.8	2174.6
122.5°	482.2	554.9	973.5	1747.9	2061.9
125°	520.2	592.8	956.3	1617.7	1894.9
127.5°	556.2	625.4	944.9	1508.9	1752.2
130°	574.9	645.7	938.7	1444.3	1666.1
132.5°	596.8	667.6	934.0	1387.5	1587.9
135°	627.7	696.6	928.9	1308.3	1480.3
137.5°	656.7	720.5	924.6	1244.2	1386.1
140°	678.6	737.8	923.0	1201.7	1329.8
142.5°	697.3	752.0	919.9	1163.7	1273.4
145°	725.5	775.2	915.2	1114.7	1200.7
147.5°	755.6	798.4	912.8	1071.2	1140.1
150°	774.4	812.6	911.3	1047.4	1101.0
152.5°	791.6	826.8	909.7	1026.9	1071.2
155°	821.3	848.1	909.3	1001.9	1030.6
157.5°	842.8	864.6	909.3	981.3	1001.2
160°	858.5	875.7	909.3	970.3	985.6
162.5°	871.0	885.1	910.9	960.8	973.1
165°	887.8	899.3	913.2	950.5	956.3
167.5°	899.5	908.3	915.2	941.8	943.3
170°	907.4	913.1	915.2	938.7	938.7
172.5°	913.6	916.3	915.2	933.9	932.4
175°	919.1	921.0	915.2	926.9	925.0
177.5°	920.7	920.7	914.4	923.7	920.7
180°	919.1	919.1	919.1	919.1	919.1

(END OF REPORT)