

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: P563448

Luminaire Tested: **SQ4-PP3-075U-125D-835-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563448
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-075U-125D-835-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

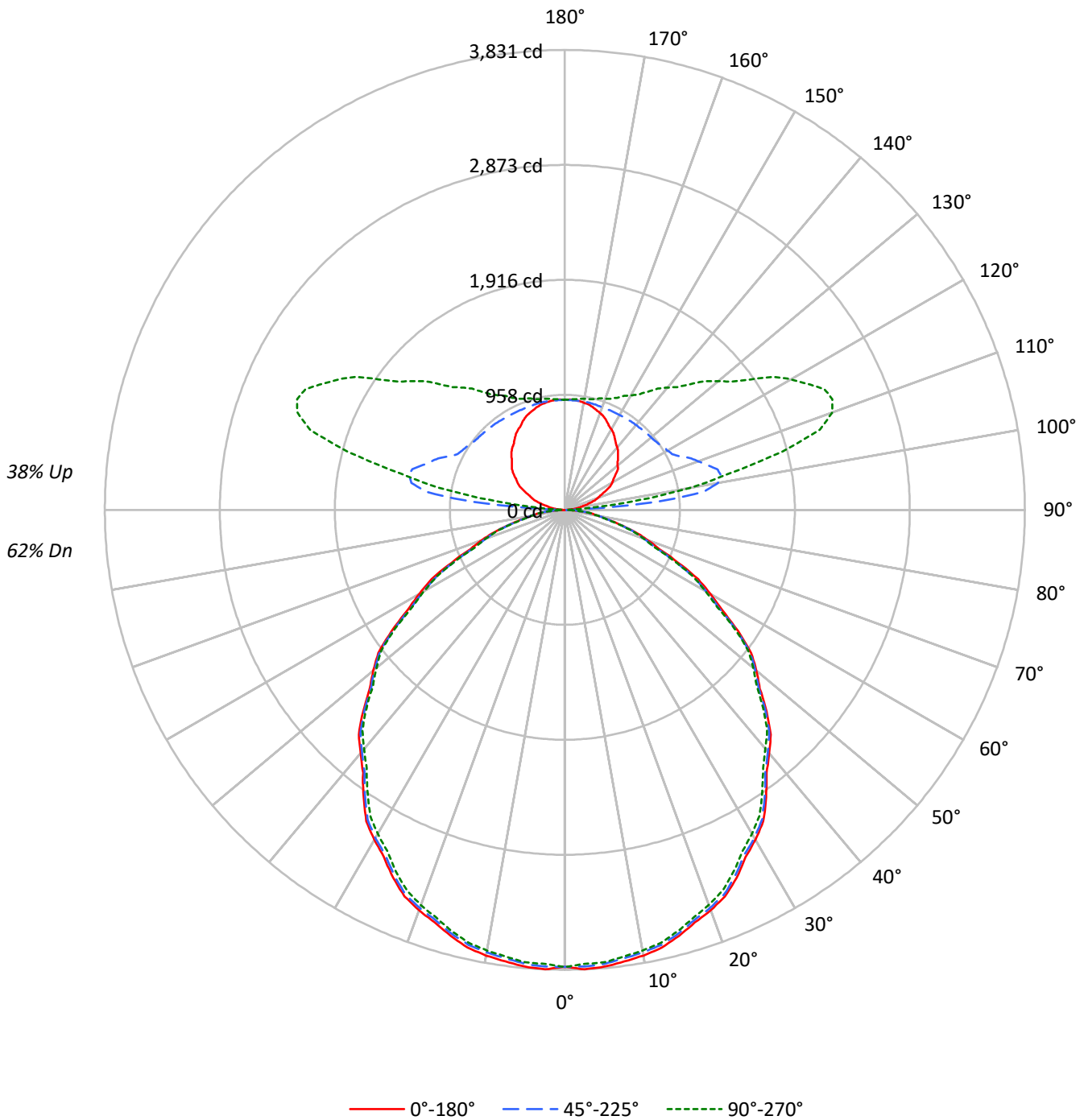
Lumens per Lamp: N/A
Luminaire Lumens: 15733.2 lumens
Efficiency: N/A
Efficacy: 123.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Direct

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	93	89	94	90	87	84	79	77	75	69	67	66	60	58	57	53
2	92	84	78	73	86	79	74	69	70	66	62	61	58	55	53	51	49	45
3	84	74	67	61	78	70	63	58	62	57	52	54	50	47	47	44	42	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	48	43	49	43	39	43	39	35	38	34	31	28
6	65	53	45	39	61	50	43	37	44	38	34	39	34	31	34	31	28	25
7	60	48	40	34	56	45	38	33	40	34	30	36	31	27	31	28	25	22
8	56	44	36	30	52	41	34	29	37	31	27	33	28	24	29	25	22	20
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	27	23	20	18
10	49	37	29	24	46	35	28	23	31	26	22	28	23	20	25	21	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17561	17561	17561
5°	17690	17582	17520
10°	17660	17535	17457
15°	17543	17448	17352
20°	17427	17329	17198
25°	17220	17101	16931
30°	16901	16812	16599
35°	16459	16346	16139
40°	15932	15832	15651
45°	15498	15389	15237
50°	14941	14845	14701
55°	14168	13980	13873
60°	12897	12528	12466
65°	11362	10889	10852
70°	9810	9405	9405
75°	8445	8325	8206
80°	7446	7534	7356
85°	5828	6357	6357



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	360.0	2.3
10°-20°	1027.8	6.5
20°-30°	1539.5	9.8
30°-40°	1805.8	11.5
40°-50°	1811.5	11.5
50°-60°	1545.3	9.8
60°-70°	1007.8	6.4
70°-80°	505.6	3.2
80°-90°	142.3	0.9
90°-100°	433.5	2.8
100°-110°	1192.6	7.6
110°-120°	1231.0	7.8
120°-130°	986.3	6.3
130°-140°	774.7	4.9
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°	2927.3	18.6
0°-40°	4733.2	30.1
0°-60°	8089.9	51.4
0°-90°	9745.6	61.9
90°-120°	2857.1	18.2
90°-150°	5211.7	33.1
90°-180°	5988.0	38.1
0°-180°	15733.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3807	3807	3807	3807	3807	
5°	3820	3784	3797	3783	3783	363
15°	3673	3638	3653	3640	3633	1036
25°	3383	3344	3360	3330	3326	1556
35°	2923	2893	2903	2869	2866	1826
45°	2376	2359	2359	2336	2336	1829
55°	1762	1755	1738	1728	1725	1566
65°	1041	1021	998	991	994	1039
75°	474	474	467	464	460	514
85°	110	120	120	120	120	129
90°	2	8	14	18	18	8
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°	3806.8	3806.8	3806.8	3806.8	3806.8
2.5°	3830.8	3799.5	3806.8	3801.1	3785.4
5°	3820.1	3784.3	3796.8	3783.4	3783.4
7.5°	3794.1	3755.0	3767.4	3754.1	3753.4
10°	3770.1	3730.9	3743.4	3730.0	3726.7
12.5°	3735.4	3696.2	3711.4	3695.3	3694.7
15°	3673.3	3637.5	3653.3	3639.8	3633.3
17.5°	3603.3	3564.1	3583.3	3564.5	3561.9
20°	3549.9	3510.7	3529.9	3503.2	3503.2
22.5°	3485.8	3446.7	3468.5	3433.8	3433.8
25°	3383.1	3343.9	3359.7	3329.6	3326.4
27.5°	3261.0	3222.5	3238.9	3204.9	3204.2
30°	3172.9	3137.0	3156.2	3119.4	3116.2
32.5°	3076.8	3043.5	3057.4	3020.7	3017.4
35°	2922.7	2893.3	2902.6	2869.2	2865.9
37.5°	2760.5	2730.5	2741.2	2712.4	2711.1
40°	2645.7	2626.2	2629.1	2605.6	2599.0
42.5°	2539.0	2516.8	2519.6	2496.2	2494.9
45°	2375.5	2359.2	2358.8	2335.5	2335.5
47.5°	2202.0	2189.6	2186.0	2166.6	2166.0
50°	2081.9	2072.1	2068.5	2051.8	2048.5
52.5°	1956.4	1951.9	1940.4	1926.4	1925.8
55°	1761.6	1755.1	1738.2	1728.2	1724.9
57.5°	1550.1	1537.0	1518.0	1503.4	1506.0
60°	1397.9	1384.9	1357.9	1351.2	1351.2
62.5°	1251.1	1235.5	1208.4	1199.2	1204.4
65°	1040.9	1021.4	997.6	991.0	994.2
67.5°	850.1	832.5	806.7	806.7	804.1
70°	727.3	717.5	697.3	697.3	697.3
72.5°	617.9	613.3	598.5	598.5	595.9
75°	473.8	473.8	467.1	463.7	460.4
77.5°	355.0	356.3	353.0	349.5	343.6
80°	280.3	286.8	283.6	280.2	276.9
82.5°	210.9	217.4	216.9	210.8	210.2
85°	110.1	119.9	120.1	120.1	120.1
87.5°	29.8	41.3	45.4	46.3	48.9
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)