

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: P563447

Luminaire Tested: **SQ4-PP3-075U-125D-835-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563447
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-6
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

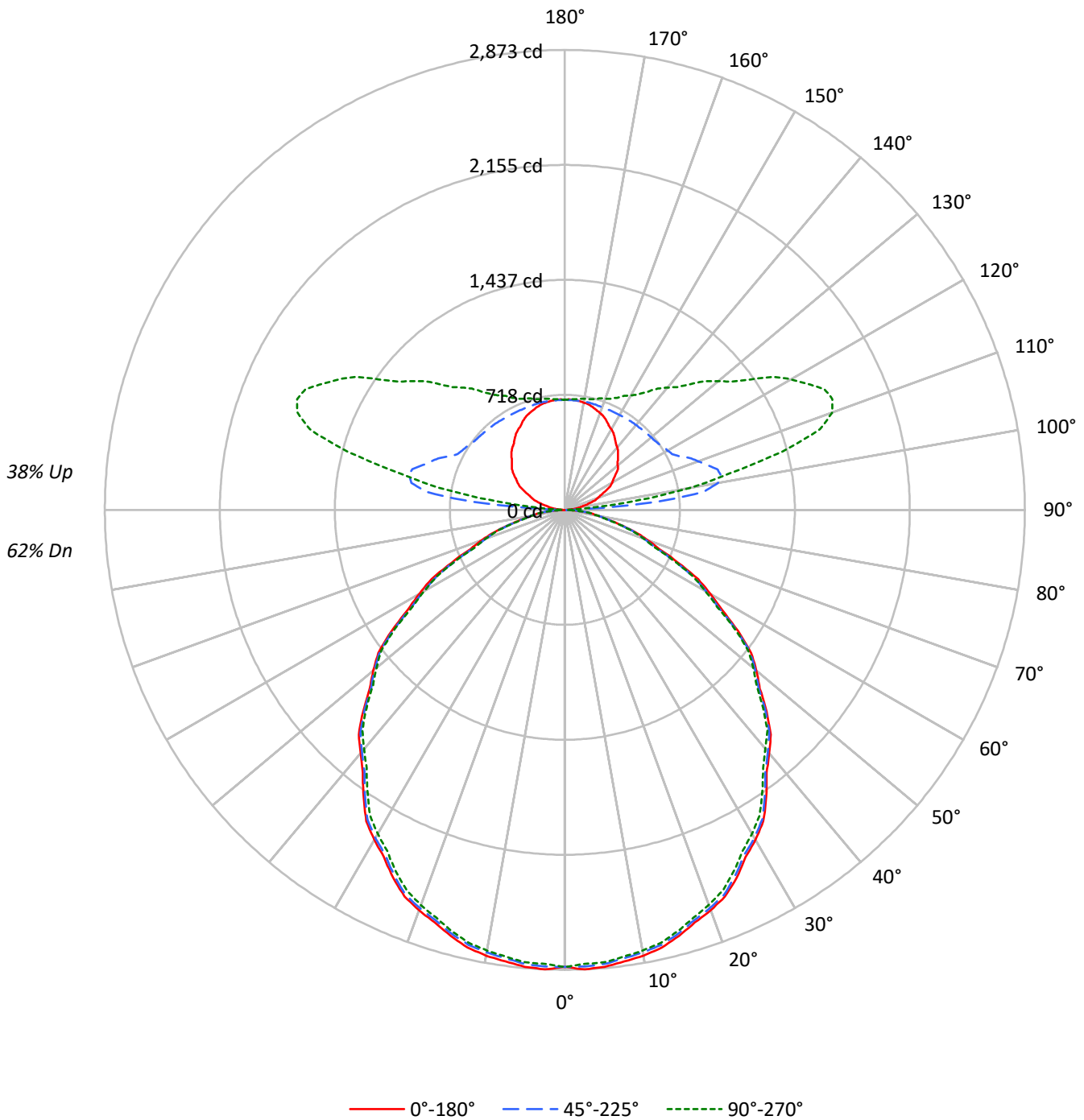
Lumens per Lamp: N/A
Luminaire Lumens: 11799.9 lumens
Efficiency: N/A
Efficacy: 121.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 97.3
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	16813	16599
35°	16459	16347	16140
40°	15933	15832	15652
45°	15497	15389	15236
50°	14941	14845	14702
55°	14168	13980	13873
60°	12898	12528	12466
65°	11362	10889	10853
70°	9810	9405	9405
75°	8444	8325	8206
80°	7446	7534	7357
85°	5829	6359	6359



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.0	2.3
10°-20°	770.9	6.5
20°-30°	1154.7	9.8
30°-40°	1354.4	11.5
40°-50°	1358.6	11.5
50°-60°	1159.0	9.8
60°-70°	755.9	6.4
70°-80°	379.2	3.2
80°-90°	106.7	0.9
90°-100°	325.1	2.8
100°-110°	894.5	7.6
110°-120°	923.3	7.8
120°-130°	739.7	6.3
130°-140°	581.0	4.9
140°-150°	445.2	3.8
150°-160°	320.1	2.7
160°-170°	195.7	1.7
170°-180°	66.0	0.6
0°-30°	2195.5	18.6
0°-40°	3549.9	30.1
0°-60°	6067.5	51.4
0°-90°	7309.2	61.9
90°-120°	2142.9	18.2
90°-150°	3908.8	33.1
90°-180°	4491.0	38.1
0°-180°	11799.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2855	2855	2855	2855	2855	
5°	2865	2838	2848	2838	2838	272
15°	2755	2728	2740	2730	2725	777
25°	2537	2508	2520	2497	2495	1167
35°	2192	2170	2177	2152	2150	1369
45°	1782	1769	1769	1752	1752	1372
55°	1321	1316	1304	1296	1294	1174
65°	781	766	748	743	746	779
75°	355	355	350	348	345	385
85°	83	90	90	90	90	97
90°	2	6	10	13	13	6
95°	48	178	575	246	157	51
105°	160	246	986	1501	1401	169
115°	283	345	790	1574	1786	279
125°	390	445	717	1213	1421	348
135°	471	522	697	981	1110	363
145°	544	581	686	836	900	341
155°	616	636	682	751	773	283
165°	666	674	685	713	717	188
175°	689	691	686	695	694	65
180°	689	689	689	689	689	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2855.1	2855.1	2855.1	2855.1	2855.1
2.5°	2873.1	2849.6	2855.1	2850.8	2839.1
5°	2865.1	2838.2	2847.6	2837.6	2837.6
7.5°	2845.6	2816.2	2825.6	2815.5	2815.1
10°	2827.6	2798.2	2807.6	2797.5	2795.0
12.5°	2801.5	2772.2	2783.5	2771.5	2771.0
15°	2755.0	2728.1	2740.0	2729.9	2725.0
17.5°	2702.5	2673.1	2687.4	2673.4	2671.4
20°	2662.4	2633.1	2647.4	2627.4	2627.4
22.5°	2614.4	2585.0	2601.4	2575.3	2575.3
25°	2537.3	2507.9	2519.8	2497.2	2494.8
27.5°	2445.7	2416.9	2429.2	2403.7	2403.2
30°	2379.7	2352.7	2367.2	2339.6	2337.1
32.5°	2307.6	2282.6	2293.1	2265.5	2263.1
35°	2192.0	2170.0	2177.0	2151.9	2149.5
37.5°	2070.4	2047.9	2055.9	2034.3	2033.3
40°	1984.3	1969.6	1971.8	1954.2	1949.3
42.5°	1904.2	1887.6	1889.7	1872.2	1871.2
45°	1781.6	1769.4	1769.1	1751.6	1751.6
47.5°	1651.5	1642.2	1639.5	1625.0	1624.5
50°	1561.4	1554.1	1551.4	1538.8	1536.4
52.5°	1467.3	1463.9	1455.3	1444.8	1444.3
55°	1321.2	1316.3	1303.7	1296.1	1293.7
57.5°	1162.6	1152.8	1138.5	1127.6	1129.5
60°	1048.5	1038.7	1018.4	1013.4	1013.4
62.5°	938.4	926.6	906.3	899.4	903.3
65°	780.7	766.0	748.2	743.2	745.7
67.5°	637.6	624.4	605.1	605.0	603.0
70°	545.5	538.2	523.0	523.0	523.0
72.5°	463.4	460.0	448.9	448.9	446.9
75°	355.3	355.3	350.3	347.8	345.3
77.5°	266.2	267.2	264.7	262.1	257.7
80°	210.2	215.1	212.7	210.1	207.7
82.5°	158.1	163.0	162.6	158.1	157.6
85°	82.6	89.9	90.1	90.1	90.1
87.5°	22.3	31.0	34.1	34.7	36.7
90°	1.5	5.8	10.3	13.2	13.2
92.5°	20.2	86.5	149.9	57.6	47.2
95°	48.4	177.5	574.9	245.8	156.9
97.5°	78.9	196.8	877.3	676.0	477.0
100°	101.2	208.8	972.4	981.5	800.8
102.5°	122.3	223.0	997.0	1217.7	1051.9
105°	159.9	245.9	985.6	1501.0	1400.6
107.5°	195.7	274.2	929.6	1639.8	1669.6
110°	221.5	293.2	887.3	1674.3	1777.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	244.9	314.3	845.1	1652.1	1809.3
115°	283.1	344.7	790.5	1574.1	1786.4
117.5°	319.4	376.2	755.9	1464.8	1704.8
120°	341.7	396.2	740.7	1382.8	1630.9
122.5°	361.7	416.2	730.1	1311.0	1546.4
125°	390.1	444.6	717.2	1213.2	1421.2
127.5°	417.1	469.0	708.7	1131.7	1314.1
130°	431.2	484.3	704.0	1083.2	1249.6
132.5°	447.6	500.7	700.5	1040.6	1190.9
135°	470.8	522.4	696.7	981.2	1110.3
137.5°	492.5	540.4	693.4	933.2	1039.6
140°	508.9	553.4	692.3	901.2	997.3
142.5°	523.0	564.0	689.9	872.8	955.1
145°	544.1	581.4	686.4	836.0	900.5
147.5°	566.7	598.8	684.6	803.4	855.1
150°	580.8	609.5	683.5	785.6	825.7
152.5°	593.7	620.1	682.3	770.2	803.4
155°	616.0	636.1	682.0	751.4	772.9
157.5°	632.1	648.5	682.0	736.0	750.9
160°	643.9	656.8	682.0	727.7	739.2
162.5°	653.2	663.9	683.2	720.6	729.8
165°	665.9	674.5	684.9	712.9	717.2
167.5°	674.7	681.3	686.4	706.4	707.5
170°	680.5	684.8	686.4	704.0	704.0
172.5°	685.2	687.2	686.4	700.4	699.3
175°	689.3	690.8	686.4	695.2	693.7
177.5°	690.5	690.5	685.8	692.8	690.5
180°	689.3	689.3	689.3	689.3	689.3

(END OF REPORT)