

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: P564119

Luminaire Tested: **SQ4-PR1-075U-125D-835-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564119
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PR1-075U-125D-835-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

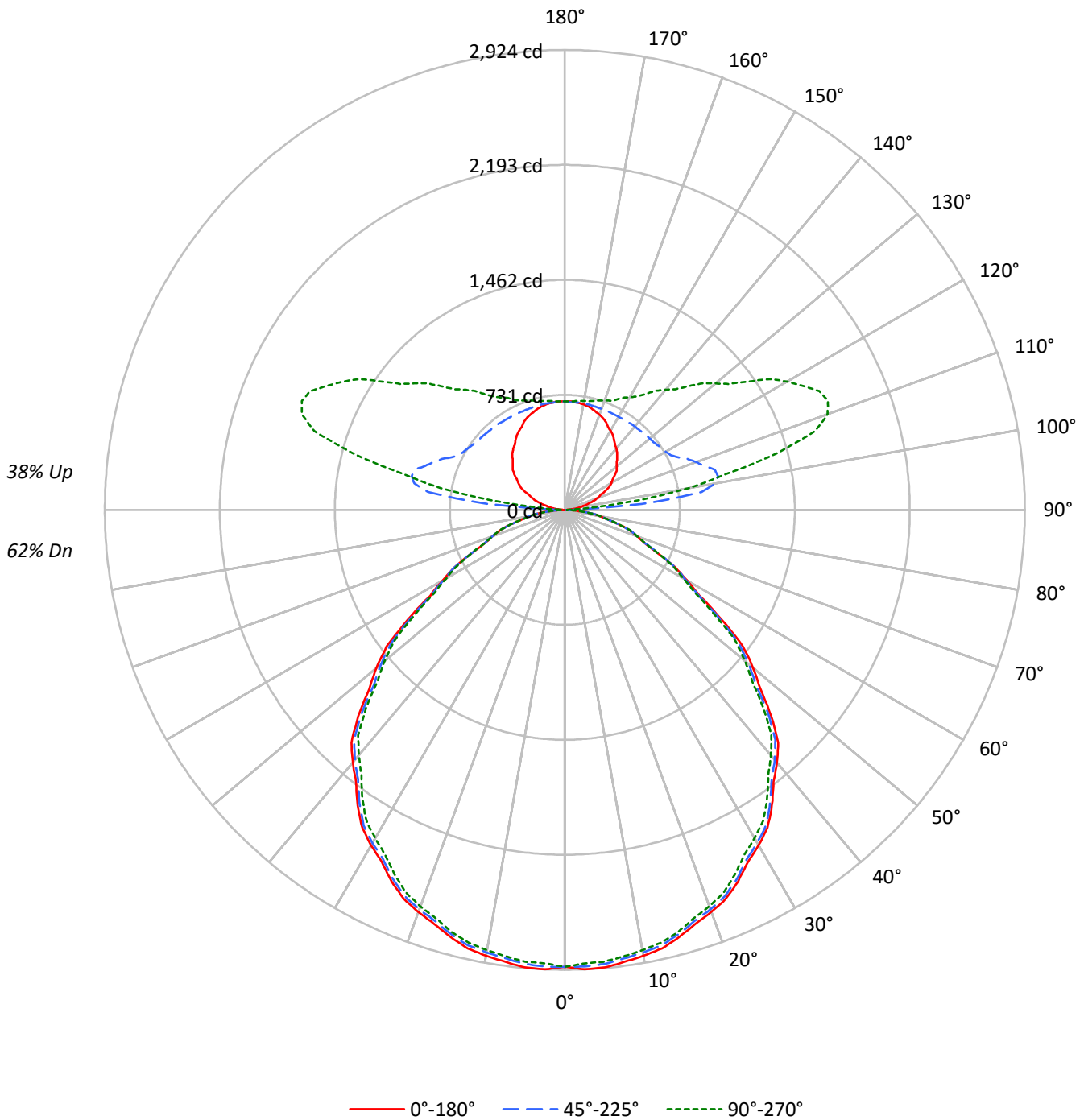
Lumens per Lamp: N/A
Luminaire Lumens: 11756.7 lumens
Efficiency: N/A
Efficacy: 120.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

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	97	93	89	94	91	87	84	79	77	75	69	67	66	60	58	57	53
2	92	85	79	74	86	80	74	70	70	66	62	61	58	55	53	51	49	45
3	84	75	67	62	79	70	64	59	62	57	53	54	51	47	47	44	42	38
4	77	66	59	53	72	63	56	50	55	50	45	49	44	41	42	39	36	33
5	71	59	51	45	66	56	49	43	50	44	39	44	39	36	38	35	32	29
6	66	53	45	39	61	51	43	38	45	39	35	40	35	31	35	31	28	26
7	61	48	40	35	57	46	38	33	41	35	31	36	31	28	32	28	25	23
8	56	44	36	31	53	42	35	30	37	31	27	33	28	25	29	25	23	20
9	53	40	33	28	49	38	31	27	34	29	24	31	26	22	27	23	20	18
10	49	37	30	25	46	35	28	24	32	26	22	28	24	20	25	21	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17873	17873	17873
5°	18034	17895	17802
10°	17977	17852	17758
15°	17898	17786	17691
20°	17808	17693	17562
25°	17683	17564	17360
30°	17492	17367	17119
35°	17233	17083	16839
40°	16841	16660	16358
45°	16154	15871	15544
50°	14945	14585	14298
55°	13044	12749	12480
60°	10991	10899	10684
65°	9507	9543	9470
70°	8733	8778	8778
75°	8387	8387	8446
80°	7892	7980	7892
85°	6359	7064	7064



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.8	2.3
10°-20°	786.2	6.7
20°-30°	1185.8	10.1
30°-40°	1412.9	12.0
40°-50°	1393.0	11.8
50°-60°	1064.6	9.1
60°-70°	658.8	5.6
70°-80°	374.2	3.2
80°-90°	115.6	1.0
90°-100°	325.1	2.8
100°-110°	894.5	7.6
110°-120°	923.3	7.9
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°	2246.8	19.1
0°-40°	3659.7	31.1
0°-60°	6117.4	52.0
0°-90°	7266.0	61.8
90°-120°	2142.9	18.2
90°-150°	3908.8	33.2
90°-180°	4491.0	38.2
0°-180°	11756.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2906	2906	2906	2906	2906	
5°	2921	2889	2898	2888	2883	277
15°	2811	2781	2793	2783	2778	793
25°	2606	2574	2588	2560	2558	1199
35°	2295	2268	2275	2245	2243	1432
45°	1857	1833	1825	1792	1787	1423
55°	1216	1197	1189	1169	1164	1090
65°	653	648	656	651	651	662
75°	353	353	353	355	355	373
85°	90	95	100	100	100	105
90°	2	6	10	13	13	7
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°	2905.8	2905.8	2905.8	2905.8	2905.8
2.5°	2923.8	2898.4	2905.8	2899.5	2885.8
5°	2920.8	2889.0	2898.3	2888.2	2883.3
7.5°	2898.3	2867.0	2876.3	2866.2	2863.3
10°	2878.3	2848.9	2858.3	2848.1	2843.3
12.5°	2856.3	2824.9	2836.2	2824.1	2819.2
15°	2810.7	2781.3	2793.2	2783.1	2778.2
17.5°	2760.7	2729.3	2741.1	2729.5	2723.1
20°	2720.6	2691.2	2703.1	2685.5	2683.1
22.5°	2676.6	2647.2	2659.0	2635.5	2635.0
25°	2605.5	2573.7	2588.0	2560.4	2557.9
27.5°	2520.9	2491.5	2503.4	2475.3	2472.3
30°	2462.8	2433.4	2445.3	2415.2	2410.3
32.5°	2396.7	2369.3	2379.2	2349.1	2346.2
35°	2295.1	2268.2	2275.1	2245.0	2242.6
37.5°	2179.5	2155.0	2159.0	2125.9	2123.4
40°	2097.4	2072.9	2074.9	2039.8	2037.3
42.5°	2007.3	1982.8	1980.8	1945.7	1943.2
45°	1857.1	1832.7	1824.6	1791.9	1787.0
47.5°	1685.9	1661.5	1646.4	1619.8	1616.3
50°	1561.8	1537.3	1524.2	1501.6	1494.2
52.5°	1427.6	1403.2	1392.1	1371.4	1364.1
55°	1216.4	1196.8	1188.9	1168.7	1163.8
57.5°	1015.7	1002.4	1000.1	980.6	978.6
60°	893.5	886.2	886.0	868.5	868.5
62.5°	789.4	784.0	787.9	776.3	774.4
65°	653.2	648.4	655.7	650.7	650.7
67.5°	545.6	545.6	550.1	548.1	548.1
70°	485.6	485.6	488.1	488.1	488.1
72.5°	431.5	429.5	436.0	436.0	434.0
75°	352.9	352.9	352.9	355.4	355.4
77.5°	274.8	275.3	277.3	276.8	274.8
80°	222.8	225.2	225.3	222.8	222.8
82.5°	170.7	173.1	173.2	172.7	170.7
85°	90.1	95.0	100.1	100.1	100.1
87.5°	26.3	35.0	42.1	42.6	40.7
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)