

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: P564676

Luminaire Tested: **SQ4-PW1-050U-100D-840-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564676
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, 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-PW1-050U-100D-840-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

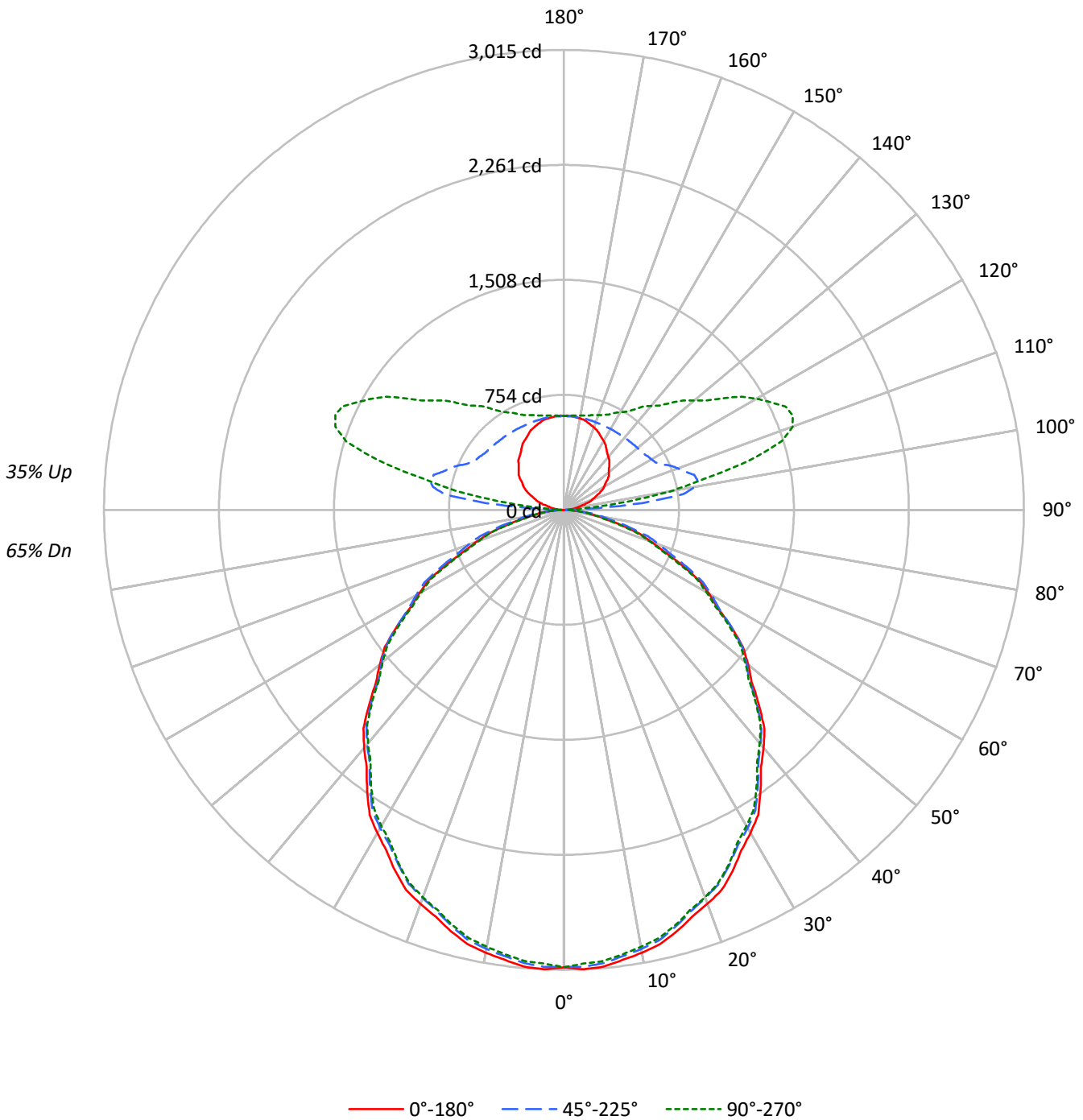
Lumens per Lamp: N/A
Luminaire Lumens: 11653.9 lumens
Efficiency: N/A
Efficacy: 122.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 95.4
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	111	111	111	111	104	104	104	104	92	92	92	81	81	81	70	70	70	65
1	101	97	93	90	95	91	88	85	81	78	76	71	69	68	62	61	60	55
2	92	85	79	73	87	80	75	70	71	67	63	63	59	57	55	53	50	47
3	84	75	67	61	79	71	64	59	63	58	53	56	51	48	49	46	43	40
4	77	66	58	52	72	63	55	50	56	50	45	50	45	41	44	40	37	34
5	71	59	51	45	67	56	48	43	50	44	39	45	40	36	39	36	32	30
6	66	53	45	39	61	50	43	37	45	39	34	40	35	31	36	32	29	26
7	61	48	40	34	57	46	38	33	41	35	30	37	32	28	33	29	25	23
8	56	44	36	30	53	42	34	29	38	31	27	34	29	25	30	26	23	21
9	53	40	32	27	49	38	31	26	34	29	24	31	26	22	28	24	21	19
10	49	37	29	24	46	35	28	24	32	26	22	29	24	20	26	22	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13830	13830	13830
5°	13919	13809	13748
10°	13808	13697	13622
15°	13662	13510	13460
20°	13499	13291	13265
25°	13310	13068	13028
30°	13029	12832	12747
35°	12659	12480	12406
40°	12264	12073	12025
45°	11787	11631	11580
50°	11298	11203	11127
55°	10771	10771	10600
60°	10114	10308	9943
65°	9255	9716	9024
70°	8159	8942	7944
75°	6967	8003	6780
80°	5403	6737	5473
85°	3493	5171	4615



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	282.3	2.4
10°-20°	797.0	6.8
20°-30°	1182.2	10.1
30°-40°	1383.3	11.9
40°-50°	1377.2	11.8
50°-60°	1189.2	10.2
60°-70°	856.0	7.3
70°-80°	448.9	3.9
80°-90°	113.7	1.0
90°-100°	295.8	2.5
100°-110°	803.7	6.9
110°-120°	826.3	7.1
120°-130°	660.7	5.7
130°-140°	519.1	4.5
140°-150°	398.0	3.4
150°-160°	286.2	2.5
160°-170°	175.1	1.5
170°-180°	59.0	0.5
0°-30°	2261.6	19.4
0°-40°	3644.9	31.3
0°-60°	6211.3	53.3
0°-90°	7629.9	65.5
90°-120°	1925.8	16.5
90°-150°	3503.7	30.1
90°-180°	4024.0	34.5
0°-180°	11653.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2998	2998	2998	2998	2998	
5°	3006	2972	2982	2974	2969	285
15°	2861	2824	2829	2824	2818	806
25°	2615	2571	2567	2552	2560	1202
35°	2248	2217	2216	2195	2203	1405
45°	1807	1791	1783	1778	1775	1394
55°	1339	1337	1339	1321	1318	1195
65°	848	874	890	855	827	840
75°	391	427	449	419	380	419
85°	66	87	98	92	87	87
90°	2	8	14	18	18	5
95°	44	162	515	224	151	46
105°	143	222	884	1346	1266	152
115°	254	308	707	1407	1603	250
125°	349	397	640	1078	1272	311
135°	420	467	622	878	991	325
145°	486	520	614	746	803	305
155°	549	568	610	670	690	253
165°	594	602	612	638	640	168
175°	616	618	614	622	620	59
180°	616	616	616	616	616	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2998.0	2998.0	2998.0	2998.0	2998.0
2.5°	3014.9	2990.1	2998.0	2991.3	2976.8
5°	3005.9	2972.3	2982.1	2974.1	2968.9
7.5°	2975.2	2944.2	2951.5	2942.9	2939.8
10°	2947.8	2916.8	2924.0	2913.3	2908.1
12.5°	2916.1	2883.0	2890.2	2879.5	2876.5
15°	2860.6	2824.4	2828.9	2823.5	2818.3
17.5°	2796.2	2759.5	2760.2	2751.8	2750.7
20°	2749.7	2710.9	2707.4	2697.0	2702.1
22.5°	2699.0	2658.1	2654.6	2639.9	2647.2
25°	2615.0	2571.0	2567.4	2551.7	2559.5
27.5°	2517.8	2474.4	2474.4	2452.4	2460.7
30°	2445.9	2404.6	2408.9	2382.7	2393.1
32.5°	2369.8	2332.6	2335.0	2308.8	2319.1
35°	2247.8	2216.8	2216.1	2195.2	2202.9
37.5°	2123.1	2095.8	2091.4	2079.3	2081.4
40°	2036.5	2013.3	2004.8	1996.9	1996.9
42.5°	1945.6	1924.5	1916.0	1910.2	1908.1
45°	1806.7	1791.2	1782.9	1777.6	1775.0
47.5°	1669.3	1654.9	1647.7	1643.9	1641.3
50°	1574.3	1563.9	1561.0	1553.1	1550.5
52.5°	1479.2	1473.0	1470.2	1460.1	1457.5
55°	1339.2	1336.6	1339.2	1320.6	1318.0
57.5°	1193.4	1197.5	1206.0	1181.1	1174.9
60°	1096.2	1106.5	1117.3	1088.0	1077.7
62.5°	996.9	1013.4	1028.5	994.9	980.5
65°	847.9	873.7	890.1	855.2	826.7
67.5°	704.2	736.2	756.0	718.3	686.2
70°	604.9	641.0	663.0	625.2	589.0
72.5°	518.2	558.5	576.3	540.7	504.5
75°	390.9	427.1	449.0	419.1	380.4
77.5°	277.3	311.4	329.6	303.6	271.5
80°	203.4	239.5	253.6	231.9	206.0
82.5°	144.2	174.2	183.8	170.8	153.2
85°	66.0	86.7	97.7	92.3	87.2
87.5°	17.3	32.9	42.9	43.8	45.8
90°	2.0	7.8	13.9	17.8	17.8
92.5°	17.8	81.0	140.7	60.4	51.1
95°	43.6	161.8	515.2	224.2	150.6
97.5°	72.1	178.7	789.9	614.5	431.6
100°	91.2	190.0	873.9	885.9	715.4
102.5°	110.2	201.2	896.1	1095.6	945.2
105°	142.7	222.1	883.8	1345.7	1266.3
107.5°	176.4	246.5	832.7	1474.8	1496.9
110°	200.1	264.1	794.6	1500.3	1595.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	220.8	281.6	756.6	1479.2	1622.2
115°	253.6	307.9	707.4	1407.4	1603.1
117.5°	284.6	336.5	676.1	1305.8	1526.3
120°	305.2	355.5	661.9	1237.6	1456.5
122.5°	322.6	373.0	652.4	1169.2	1380.4
125°	348.8	397.2	640.1	1078.4	1272.2
127.5°	372.2	420.2	633.3	1009.7	1175.9
130°	386.4	432.9	630.2	966.5	1115.7
132.5°	400.7	447.2	627.0	929.6	1061.8
135°	420.1	466.6	622.2	878.4	990.8
137.5°	441.1	483.4	619.9	833.2	927.8
140°	453.8	494.5	618.3	804.5	889.8
142.5°	466.5	504.1	616.7	782.0	853.3
145°	485.5	520.4	614.3	746.4	802.6
147.5°	506.9	536.7	612.3	718.4	762.5
150°	521.2	546.4	612.3	702.3	737.2
152.5°	532.3	554.4	610.7	687.9	716.6
155°	548.9	568.3	610.3	670.2	689.6
157.5°	565.2	580.3	610.3	658.2	673.0
160°	574.7	588.2	610.3	650.2	661.9
162.5°	584.2	594.6	611.9	643.8	652.4
165°	594.5	602.2	612.3	638.1	640.1
167.5°	605.2	609.1	614.3	631.4	632.9
170°	608.4	612.2	614.3	628.2	628.2
172.5°	611.5	613.9	614.3	625.0	625.0
175°	616.3	618.2	614.3	622.2	620.3
177.5°	617.9	617.9	613.1	619.4	616.3
180°	616.3	616.3	616.3	616.3	616.3

(END OF REPORT)