

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: P563893

Luminaire Tested: **SQ4-PR1-025U-075D-940-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563893
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-PR1-025U-075D-940-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

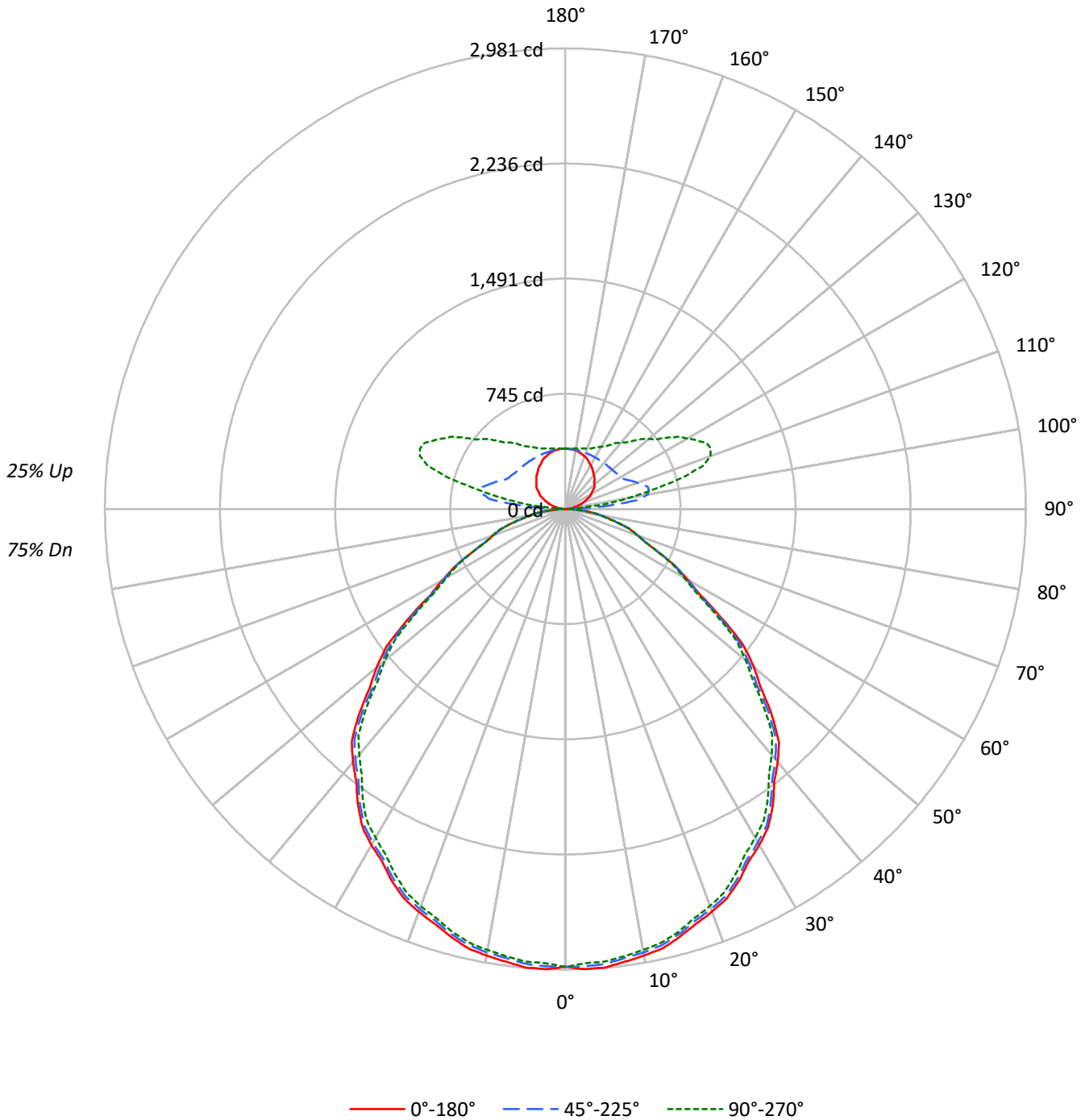
Lumens per Lamp: N/A
Luminaire Lumens: 9939.5 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 94.8
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	50	30	10	0	
RCR																						
0	113	113	113	113	107	107	107	107	97	97	97	87	87	87	79	79	79	75				
1	104	99	95	92	98	95	91	88	86	83	81	78	76	74	70	69	67	64				
2	95	87	81	76	90	83	78	73	76	71	68	69	65	62	62	60	57	54				
3	87	77	70	64	82	74	67	62	67	62	57	61	57	53	56	52	49	46				
4	80	69	61	54	76	66	58	53	60	54	49	55	50	46	50	46	43	40				
5	73	61	53	47	70	59	51	46	54	48	43	49	44	40	45	41	38	35				
6	68	55	47	41	64	53	46	40	49	42	38	45	40	35	41	37	33	31				
7	63	50	42	36	60	48	41	35	44	38	33	41	36	32	38	33	30	27				
8	58	46	38	32	56	44	37	32	41	34	30	38	32	28	35	30	27	25				
9	55	42	34	29	52	40	33	28	37	31	27	35	29	25	32	27	24	22				
10	51	39	31	26	49	37	30	26	35	29	24	32	27	23	30	25	22	20				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9112	9112	9112
5°	9194	9123	9076
10°	9165	9102	9054
15°	9125	9068	9019
20°	9079	9021	8954
25°	9015	8955	8850
30°	8918	8854	8728
35°	8786	8710	8585
40°	8586	8494	8340
45°	8236	8092	7925
50°	7619	7436	7290
55°	6650	6500	6363
60°	5604	5557	5447
65°	4847	4866	4828
70°	4452	4475	4475
75°	4275	4275	4306
80°	4022	4068	4022
85°	3243	3603	3603



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.2	2.8
10°-20°	801.7	8.1
20°-30°	1209.2	12.2
30°-40°	1440.7	14.5
40°-50°	1420.4	14.3
50°-60°	1085.6	10.9
60°-70°	671.8	6.8
70°-80°	381.5	3.8
80°-90°	118.2	1.2
90°-100°	190.3	1.9
100°-110°	500.2	5.0
110°-120°	518.7	5.2
120°-130°	416.0	4.2
130°-140°	326.4	3.3
140°-150°	250.5	2.5
150°-160°	180.4	1.8
160°-170°	110.4	1.1
170°-180°	37.3	0.4
0°-30°	2291.0	23.0
0°-40°	3731.7	37.5
0°-60°	6237.7	62.8
0°-90°	7409.2	74.5
90°-120°	1209.1	12.2
90°-150°	2202.1	22.2
90°-180°	2530.0	25.5
0°-180°	9939.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2963	2963	2963	2963	2963	
5°	2978	2946	2955	2945	2940	283
15°	2866	2836	2848	2838	2833	809
25°	2657	2624	2639	2611	2608	1223
35°	2340	2313	2320	2289	2287	1461
45°	1894	1869	1860	1827	1822	1451
55°	1240	1220	1212	1192	1187	1111
65°	666	661	669	664	664	675
75°	360	360	360	362	362	380
85°	92	97	102	102	102	107
90°	2	7	20	10	10	6
95°	25	98	328	169	115	28
105°	90	137	553	840	783	95
115°	160	194	443	884	1008	158
125°	223	250	403	681	803	198
135°	265	292	390	550	623	205
145°	308	327	385	469	506	193
155°	348	358	385	423	435	160
165°	375	380	385	400	405	106
175°	390	390	388	393	393	37
180°	390	390	390	390	390	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2963.0	2963.0	2963.0	2963.0	2963.0
2.5°	2981.4	2955.4	2963.0	2956.5	2942.6
5°	2978.3	2945.9	2955.3	2945.0	2940.0
7.5°	2955.3	2923.4	2932.9	2922.6	2919.6
10°	2934.9	2905.0	2914.5	2904.2	2899.2
12.5°	2912.5	2880.5	2892.0	2879.7	2874.7
15°	2866.0	2836.1	2848.1	2837.8	2832.8
17.5°	2815.0	2783.0	2795.1	2783.2	2776.7
20°	2774.1	2744.2	2756.3	2738.3	2735.9
22.5°	2729.2	2699.3	2711.4	2687.4	2686.9
25°	2656.7	2624.3	2638.9	2610.7	2608.2
27.5°	2570.5	2540.5	2552.6	2524.0	2521.0
30°	2511.3	2481.3	2493.4	2462.7	2457.7
32.5°	2443.9	2415.9	2426.0	2395.3	2392.3
35°	2340.3	2312.8	2319.9	2289.2	2286.7
37.5°	2222.4	2197.4	2201.4	2167.7	2165.2
40°	2138.7	2113.7	2115.7	2079.9	2077.4
42.5°	2046.8	2021.8	2019.7	1983.9	1981.5
45°	1893.7	1868.7	1860.5	1827.2	1822.2
47.5°	1719.1	1694.1	1678.8	1651.6	1648.1
50°	1592.5	1567.6	1554.2	1531.1	1523.6
52.5°	1455.7	1430.8	1419.5	1398.4	1390.9
55°	1240.3	1220.4	1212.2	1191.7	1186.7
57.5°	1035.6	1022.2	1019.8	999.9	997.9
60°	911.1	903.6	903.4	885.6	885.6
62.5°	804.9	799.4	803.4	791.6	789.6
65°	666.1	661.1	668.7	663.5	663.5
67.5°	556.4	556.4	561.0	558.9	558.9
70°	495.1	495.1	497.7	497.7	497.7
72.5°	440.0	438.0	444.6	444.5	442.5
75°	359.8	359.8	359.8	362.4	362.4
77.5°	280.2	280.7	282.8	282.2	280.2
80°	227.1	229.6	229.7	227.1	227.1
82.5°	174.1	176.5	176.6	176.0	174.1
85°	91.9	96.9	102.1	102.1	102.1
87.5°	27.0	36.0	44.8	42.8	40.8
90°	2.5	7.4	20.0	10.0	10.0
92.5°	10.5	50.6	112.1	49.6	32.0
95°	25.0	98.4	327.8	168.9	115.1
97.5°	43.5	108.1	490.5	390.0	287.3
100°	57.6	116.3	540.5	547.8	425.4
102.5°	69.6	124.4	554.5	682.3	577.6
105°	90.1	136.6	553.0	839.5	783.3
107.5°	111.1	154.2	521.5	921.2	934.9
110°	125.1	164.3	495.5	942.2	1001.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	139.1	176.3	471.5	928.9	1019.0
115°	160.2	194.4	442.9	883.7	1008.5
117.5°	180.7	212.0	423.4	820.9	959.4
120°	192.7	222.0	415.4	778.8	913.4
122.5°	204.7	234.1	409.4	736.7	869.3
125°	222.7	249.6	402.9	680.9	803.3
127.5°	237.2	264.6	397.4	636.0	739.2
130°	245.2	274.6	395.4	607.8	703.2
132.5°	253.2	282.6	393.4	583.5	669.1
135°	265.3	292.2	390.4	549.7	623.1
137.5°	277.8	304.2	389.9	524.4	584.6
140°	287.8	312.2	387.9	504.3	560.5
142.5°	295.8	318.3	387.9	490.1	538.5
145°	307.8	327.4	385.4	468.8	505.5
147.5°	319.8	338.9	385.4	451.1	481.5
150°	327.8	344.9	385.4	441.0	465.4
152.5°	335.8	349.0	385.4	432.8	451.4
155°	347.8	357.6	385.4	423.2	435.4
157.5°	356.8	366.1	385.4	414.6	423.4
160°	362.8	370.2	385.4	410.5	415.4
162.5°	368.9	374.2	385.4	406.5	411.4
165°	375.4	380.3	385.4	400.5	405.4
167.5°	381.4	383.8	387.9	397.9	399.9
170°	385.4	387.8	387.9	397.9	397.9
172.5°	387.4	387.9	387.9	395.8	393.9
175°	390.4	390.4	387.9	392.9	392.9
177.5°	390.4	390.4	388.4	392.3	390.4
180°	390.4	390.4	390.4	390.4	390.4

(END OF REPORT)