

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: P563359

Luminaire Tested: **SQ4-PP3-050U-125D-930-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563359
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, 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-PP3-050U-125D-930-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

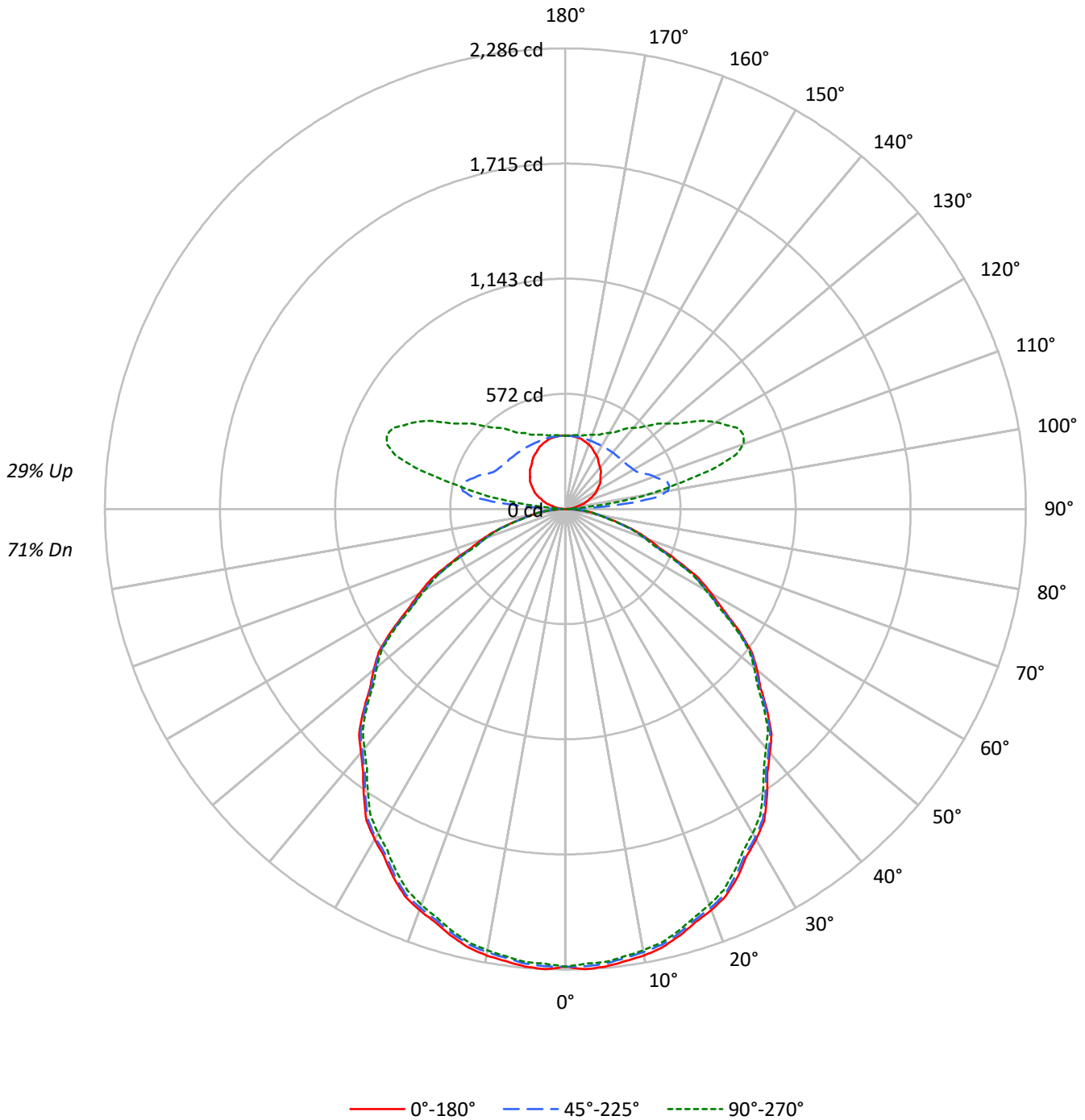
Lumens per Lamp: N/A
Luminaire Lumens: 8194.0 lumens
Efficiency: N/A
Efficacy: 93.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 87.8
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	0
RCR																		
0	112	112	112	112	106	106	106	106	95	95	95	85	85	85	75	75	75	71
1	103	98	95	91	97	93	90	87	84	81	79	75	73	71	67	66	64	60
2	94	86	80	75	89	82	76	72	74	69	66	66	63	60	59	57	55	51
3	86	76	69	63	81	72	66	60	65	60	56	59	55	51	53	50	47	43
4	79	68	59	53	74	64	57	51	58	52	48	53	48	44	47	44	40	37
5	72	60	52	46	68	58	50	44	52	46	41	47	42	38	43	39	35	33
6	67	54	46	40	63	52	44	39	47	41	36	43	38	34	39	34	31	29
7	62	49	41	35	58	47	39	34	43	37	32	39	34	30	35	31	28	25
8	57	45	37	31	54	43	35	30	39	33	29	36	31	27	33	28	25	23
9	54	41	33	28	51	39	32	27	36	30	26	33	28	24	30	26	22	20
10	50	38	30	25	48	36	29	25	33	27	23	31	25	22	28	24	20	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13975	13975	13975
5°	14077	13991	13942
10°	14053	13953	13892
15°	13960	13884	13808
20°	13867	13790	13685
25°	13703	13608	13473
30°	13449	13379	13209
35°	13097	13007	12843
40°	12678	12599	12454
45°	12332	12246	12124
50°	11889	11813	11699
55°	11275	11125	11039
60°	10263	9969	9920
65°	9042	8665	8636
70°	7807	7485	7485
75°	6721	6626	6531
80°	5926	5997	5855
85°	4637	5060	5060



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.8	2.6
10°-20°	613.4	7.5
20°-30°	918.8	11.2
30°-40°	1077.7	13.2
40°-50°	1081.1	13.2
50°-60°	922.3	11.3
60°-70°	601.5	7.3
70°-80°	301.8	3.7
80°-90°	84.9	1.0
90°-100°	174.8	2.1
100°-110°	474.9	5.8
110°-120°	488.2	6.0
120°-130°	390.4	4.8
130°-140°	306.7	3.7
140°-150°	235.2	2.9
150°-160°	169.1	2.1
160°-170°	103.4	1.3
170°-180°	34.8	0.4
0°-30°	1747.1	21.3
0°-40°	2824.8	34.5
0°-60°	4828.2	58.9
0°-90°	5816.4	71.0
90°-120°	1137.9	13.9
90°-150°	2070.2	25.3
90°-180°	2378.0	29.0
0°-180°	8194.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2272	2272	2272	2272	2272	
5°	2280	2258	2266	2258	2258	217
15°	2192	2171	2180	2172	2168	618
25°	2019	1996	2005	1987	1985	928
35°	1744	1727	1732	1712	1710	1090
45°	1418	1408	1408	1394	1394	1092
55°	1051	1048	1037	1031	1029	934
65°	621	610	595	591	593	620
75°	283	283	279	277	275	307
85°	66	72	72	72	72	77
90°	1	5	8	10	10	4
95°	26	96	304	132	89	27
105°	84	131	522	795	748	90
115°	150	182	418	832	947	148
125°	206	235	378	637	752	184
135°	248	276	368	519	585	192
145°	287	308	363	441	474	180
155°	324	336	361	396	408	150
165°	351	356	362	377	378	99
175°	364	365	363	368	366	35
180°	364	364	364	364	364	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2272.0	2272.0	2272.0	2272.0	2272.0
2.5°	2286.3	2267.6	2272.0	2268.6	2259.2
5°	2279.9	2258.5	2266.0	2258.0	2258.0
7.5°	2264.4	2241.0	2248.5	2240.5	2240.1
10°	2250.1	2226.7	2234.1	2226.1	2224.2
12.5°	2229.3	2206.0	2215.0	2205.4	2205.1
15°	2192.3	2170.9	2180.4	2172.3	2168.4
17.5°	2150.5	2127.1	2138.5	2127.4	2125.8
20°	2118.6	2095.3	2106.7	2090.8	2090.8
22.5°	2080.4	2057.0	2070.0	2049.3	2049.3
25°	2019.1	1995.7	2005.1	1987.2	1985.2
27.5°	1946.2	1923.2	1933.1	1912.7	1912.3
30°	1893.6	1872.2	1883.7	1861.7	1859.8
32.5°	1836.3	1816.4	1824.7	1802.8	1800.8
35°	1744.3	1726.8	1732.3	1712.4	1710.4
37.5°	1647.5	1629.6	1636.0	1618.8	1618.0
40°	1579.0	1567.3	1569.1	1555.0	1551.1
42.5°	1515.3	1502.1	1503.8	1489.8	1489.0
45°	1417.7	1408.0	1407.8	1393.8	1393.8
47.5°	1314.2	1306.8	1304.6	1293.1	1292.7
50°	1242.5	1236.7	1234.5	1224.5	1222.6
52.5°	1167.6	1164.9	1158.1	1149.7	1149.3
55°	1051.4	1047.5	1037.4	1031.4	1029.4
57.5°	925.1	917.3	906.0	897.3	898.8
60°	834.3	826.5	810.4	806.4	806.4
62.5°	746.7	737.4	721.2	715.7	718.8
65°	621.3	609.6	595.4	591.4	593.4
67.5°	507.4	496.8	481.5	481.4	479.9
70°	434.1	428.2	416.2	416.2	416.2
72.5°	368.8	366.0	357.2	357.2	355.6
75°	282.8	282.8	278.8	276.7	274.8
77.5°	211.9	212.6	210.7	208.6	205.1
80°	167.3	171.2	169.3	167.2	165.3
82.5°	125.8	129.7	129.4	125.8	125.4
85°	65.7	71.6	71.7	71.7	71.7
87.5°	17.8	24.7	27.1	27.6	29.2
90°	1.2	4.6	8.2	10.5	10.5
92.5°	10.5	47.9	83.1	35.7	30.2
95°	25.8	95.6	304.4	132.5	89.0
97.5°	42.6	105.6	466.7	363.1	255.0
100°	53.9	112.2	516.4	523.4	422.7
102.5°	65.1	118.9	529.5	647.4	558.5
105°	84.3	131.2	522.2	795.1	748.2
107.5°	104.2	145.7	492.0	871.4	884.5
110°	118.3	156.0	469.5	886.5	942.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	130.4	166.4	447.0	874.0	958.5
115°	149.9	181.9	418.0	831.6	947.2
117.5°	168.1	198.8	399.5	771.5	901.8
120°	180.3	210.1	391.1	731.2	860.6
122.5°	190.6	220.4	385.5	690.9	815.6
125°	206.1	234.7	378.2	637.2	751.7
127.5°	219.9	248.3	374.2	596.6	694.8
130°	228.3	255.8	372.3	571.1	659.2
132.5°	236.8	264.2	370.5	549.3	627.4
135°	248.2	275.7	367.7	519.0	585.4
137.5°	260.6	285.6	366.3	492.3	548.2
140°	268.1	292.2	365.3	475.4	525.7
142.5°	275.6	297.8	364.4	462.1	504.2
145°	286.9	307.5	363.0	441.0	474.2
147.5°	299.5	317.1	361.8	424.5	450.6
150°	307.9	322.8	361.8	415.0	435.6
152.5°	314.5	327.6	360.9	406.4	423.4
155°	324.3	335.8	360.6	396.0	407.5
157.5°	333.9	342.9	360.6	388.9	397.6
160°	339.6	347.6	360.6	384.2	391.1
162.5°	345.2	351.4	361.6	380.4	385.5
165°	351.3	355.8	361.8	377.1	378.2
167.5°	357.6	359.9	363.0	373.1	374.0
170°	359.5	361.8	363.0	371.2	371.2
172.5°	361.3	362.7	363.0	369.3	369.3
175°	364.1	365.3	363.0	367.6	366.5
177.5°	365.1	365.1	362.3	366.0	364.1
180°	364.1	364.1	364.1	364.1	364.1

(END OF REPORT)