

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: P563774

Luminaire Tested: **SQ4-PP3-150U-050D-940-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563774
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, 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-PP3-150U-050D-940-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

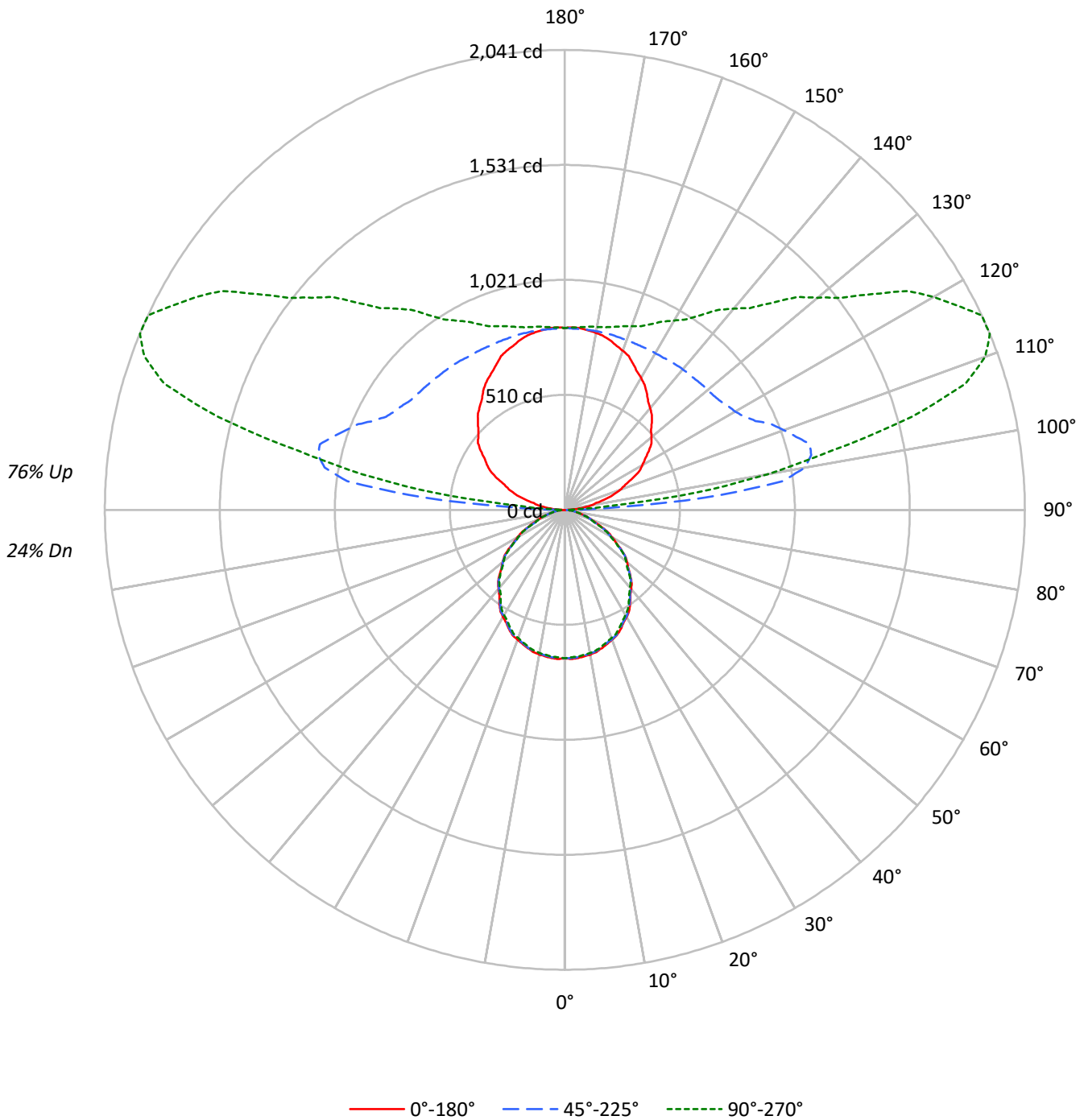
Lumens per Lamp: N/A
Luminaire Lumens: 6894.4 lumens
Efficiency: N/A
Efficacy: 123.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 55.7
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	101	101	101	101	90	90	90	90	69	69	69	50	50	50	33	33	33	24
1	92	88	84	81	82	78	75	73	61	59	57	44	43	42	29	28	28	21
2	84	77	71	66	74	69	64	60	53	50	47	39	37	35	26	24	23	18
3	77	68	61	55	68	60	55	50	47	43	40	34	32	30	23	21	20	15
4	70	60	52	46	62	53	47	42	42	37	34	31	28	25	20	19	17	13
5	64	53	45	40	57	48	41	36	37	32	29	27	24	22	18	16	15	11
6	59	47	40	34	52	43	36	31	33	29	25	25	21	19	17	15	13	10
7	54	43	35	30	48	38	32	27	30	25	22	22	19	17	15	13	12	9
8	50	39	31	26	45	35	28	24	27	23	19	20	17	15	14	12	10	8
9	47	35	28	23	42	32	25	21	25	20	17	19	15	13	13	11	9	7
10	43	32	25	20	39	29	23	19	23	18	15	17	14	12	12	10	8	6

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6075	6075	6075
5°	6119	6082	6061
10°	6109	6065	6039
15°	6068	6036	6002
20°	6028	5994	5949
25°	5956	5916	5857
30°	5847	5816	5742
35°	5694	5654	5583
40°	5511	5476	5414
45°	5361	5324	5270
50°	5169	5136	5085
55°	4901	4835	4798
60°	4462	4334	4312
65°	3930	3766	3755
70°	3394	3253	3253
75°	2920	2880	2838
80°	2577	2603	2545
85°	2011	2202	2202



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.3	0.9
10°-20°	177.8	2.6
20°-30°	266.3	3.9
30°-40°	312.3	4.5
40°-50°	313.3	4.5
50°-60°	267.3	3.9
60°-70°	174.3	2.5
70°-80°	87.5	1.3
80°-90°	25.9	0.4
90°-100°	375.4	5.4
100°-110°	1014.9	14.7
110°-120°	1067.1	15.5
120°-130°	866.7	12.6
130°-140°	679.9	9.9
140°-150°	521.8	7.6
150°-160°	375.3	5.4
160°-170°	229.3	3.3
170°-180°	77.3	1.1
0°-30°	506.3	7.3
0°-40°	818.6	11.9
0°-60°	1399.2	20.3
0°-90°	1686.8	24.5
90°-120°	2457.4	35.6
90°-150°	4525.8	65.6
90°-180°	5208.0	75.5
0°-180°	6894.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	658	658	658	658	658	
5°	661	654	657	654	654	63
15°	635	629	632	630	628	179
25°	585	578	581	576	575	269
35°	506	500	502	496	496	316
45°	411	408	408	404	404	316
55°	305	304	301	299	298	271
65°	180	177	172	171	172	180
75°	82	82	81	80	80	89
85°	19	21	21	21	21	22
90°	2	5	11	12	11	5
95°	58	204	624	323	192	61
105°	189	292	1126	1661	1593	199
115°	332	406	934	1808	2041	328
125°	455	521	842	1420	1668	405
135°	545	610	819	1147	1298	421
145°	634	681	808	982	1056	397
155°	716	744	801	880	909	330
165°	779	787	804	836	840	219
175°	809	808	805	816	814	77
180°	808	808	808	808	808	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	658.4	658.4	658.4	658.4	658.4
2.5°	662.6	657.1	658.4	657.4	654.7
5°	660.7	654.5	656.7	654.4	654.4
7.5°	656.2	649.4	651.6	649.3	649.2
10°	652.1	645.3	647.4	645.1	644.6
12.5°	646.1	639.3	641.9	639.1	639.0
15°	635.3	629.1	631.9	629.5	628.4
17.5°	623.2	616.4	619.7	616.5	616.1
20°	614.0	607.2	610.5	605.9	605.9
22.5°	602.9	596.1	599.9	593.9	593.9
25°	585.1	578.4	581.1	575.9	575.3
27.5°	564.0	557.3	560.2	554.3	554.2
30°	548.8	542.6	545.9	539.5	539.0
32.5°	532.2	526.4	528.8	522.4	521.9
35°	505.5	500.4	502.0	496.2	495.7
37.5°	477.4	472.3	474.1	469.1	468.9
40°	457.6	454.2	454.7	450.6	449.5
42.5°	439.1	435.3	435.8	431.7	431.5
45°	410.9	408.0	408.0	403.9	403.9
47.5°	380.9	378.7	378.1	374.7	374.6
50°	360.1	358.4	357.8	354.9	354.3
52.5°	338.4	337.6	335.6	333.2	333.1
55°	304.7	303.6	300.6	298.9	298.3
57.5°	268.1	265.8	262.6	260.0	260.5
60°	241.8	239.5	234.9	233.7	233.7
62.5°	216.4	213.7	209.0	207.4	208.3
65°	180.0	176.7	172.5	171.4	172.0
67.5°	147.0	144.0	139.5	139.5	139.1
70°	125.8	124.1	120.6	120.6	120.6
72.5°	106.9	106.1	103.5	103.5	103.1
75°	81.9	81.9	80.8	80.2	79.6
77.5°	61.4	61.6	61.1	60.5	59.4
80°	48.5	49.6	49.0	48.5	47.9
82.5°	36.5	37.6	37.5	36.5	36.4
85°	19.0	20.7	20.8	20.8	20.8
87.5°	5.4	7.9	9.6	9.8	10.1
90°	1.7	5.1	11.3	12.2	11.3
92.5°	24.7	90.0	177.5	77.1	55.8
95°	58.3	204.5	624.3	323.1	192.1
97.5°	93.6	234.5	973.1	805.3	591.4
100°	120.0	246.6	1081.6	1128.0	912.0
102.5°	144.3	263.5	1119.8	1372.6	1211.1
105°	188.7	291.5	1125.9	1660.8	1592.8
107.5°	229.7	323.6	1076.7	1840.6	1863.2
110°	261.7	346.7	1032.9	1888.9	1984.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	290.2	369.8	992.6	1879.2	2040.6
115°	332.1	406.1	933.8	1807.6	2040.6
117.5°	373.2	442.5	895.0	1698.3	1962.3
120°	398.2	466.2	872.0	1619.8	1889.3
122.5°	421.9	488.5	858.1	1535.7	1807.2
125°	454.7	521.0	841.6	1420.2	1668.5
127.5°	485.0	550.1	831.9	1326.0	1544.3
130°	501.7	568.8	827.7	1267.8	1465.0
132.5°	519.1	585.5	823.5	1215.3	1396.8
135°	545.1	609.7	819.0	1146.7	1298.1
137.5°	571.4	632.4	815.2	1091.2	1214.4
140°	589.5	646.4	813.8	1055.4	1165.0
142.5°	606.9	660.4	811.0	1023.1	1119.1
145°	633.8	681.4	807.7	981.6	1056.4
147.5°	658.3	700.5	803.9	944.0	1001.4
150°	676.4	713.8	802.5	923.5	969.4
152.5°	693.1	725.8	801.8	904.6	942.3
155°	715.5	743.6	800.8	880.5	909.4
157.5°	738.8	758.4	800.9	863.8	882.8
160°	752.1	768.2	801.6	853.2	866.8
162.5°	762.5	775.9	802.3	844.8	855.0
165°	779.0	786.7	804.2	835.6	839.9
167.5°	790.3	795.6	804.4	827.8	829.8
170°	797.3	799.8	805.1	824.2	824.2
172.5°	802.8	803.3	805.1	820.0	819.4
175°	808.6	807.7	805.1	815.5	813.8
177.5°	810.5	808.4	804.9	811.8	809.8
180°	807.7	807.7	807.7	807.7	807.7

(END OF REPORT)