

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: P565118

Luminaire Tested: **SQ4-PW1-150U-050D-940-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P565118
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, 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-PW1-150U-050D-940-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

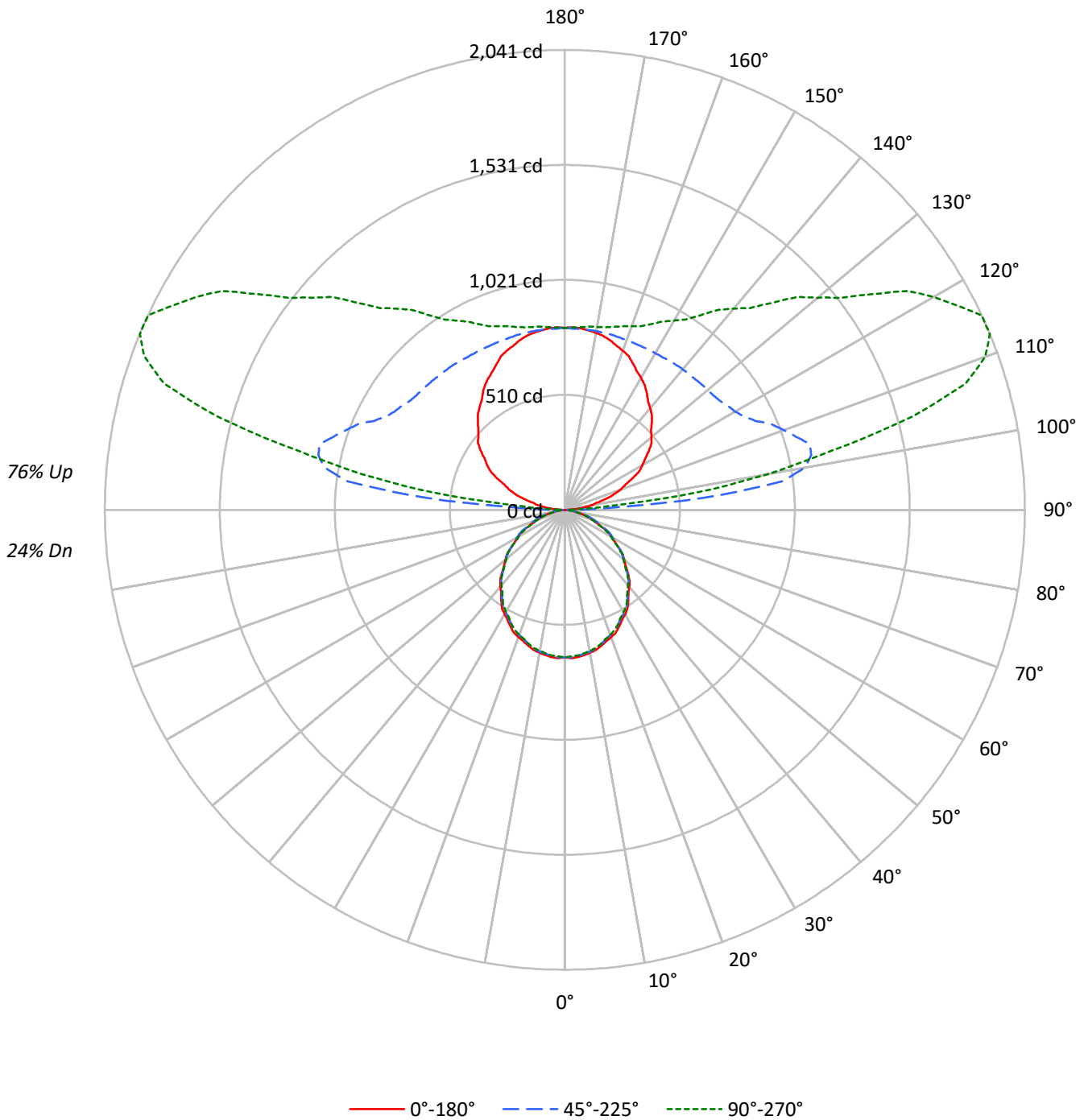
Lumens per Lamp: N/A
Luminaire Lumens: 6876.0 lumens
Efficiency: N/A
Efficacy: 123.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

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	50	30	10	0	
RCR																						
0	101	101	101	101	90	90	90	90	69	69	69	50	50	50	32	32	32	24				24
1	92	88	84	81	82	78	75	72	60	58	57	44	43	42	29	28	27	21				21
2	84	77	71	66	74	68	64	59	53	50	47	39	37	35	25	24	23	17				17
3	76	67	60	55	68	60	54	50	47	43	39	34	32	29	22	21	20	15				15
4	70	60	52	46	62	53	47	42	41	37	33	30	27	25	20	18	17	13				13
5	64	53	45	39	57	47	41	36	37	32	29	27	24	22	18	16	15	11				11
6	59	47	40	34	52	42	36	31	33	28	25	24	21	19	16	14	13	10				10
7	54	43	35	30	48	38	32	27	30	25	22	22	19	17	15	13	11	9				9
8	50	38	31	26	45	35	28	24	27	22	19	20	17	15	14	12	10	8				8
9	47	35	28	23	41	31	25	21	25	20	17	18	15	13	13	11	9	7				7
10	43	32	25	20	39	29	23	19	23	18	15	17	14	12	12	10	8	6				6

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6044	6044	6044
5°	6083	6035	6009
10°	6034	5986	5954
15°	5971	5905	5883
20°	5899	5809	5798
25°	5817	5711	5694
30°	5694	5608	5571
35°	5532	5455	5422
40°	5360	5276	5256
45°	5151	5083	5061
50°	4938	4896	4863
55°	4707	4707	4633
60°	4419	4504	4346
65°	4045	4246	3945
70°	3566	3909	3472
75°	3044	3497	2962
80°	2359	2943	2391
85°	1524	2265	2011



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.7	0.9
10°-20°	174.2	2.5
20°-30°	258.3	3.8
30°-40°	302.3	4.4
40°-50°	300.9	4.4
50°-60°	259.9	3.8
60°-70°	187.1	2.7
70°-80°	98.1	1.4
80°-90°	26.0	0.4
90°-100°	375.4	5.5
100°-110°	1014.9	14.8
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	5.5
160°-170°	229.3	3.3
170°-180°	77.3	1.1
0°-30°	494.2	7.2
0°-40°	796.5	11.6
0°-60°	1357.3	19.7
0°-90°	1668.4	24.3
90°-120°	2457.4	35.7
90°-150°	4525.8	65.8
90°-180°	5208.0	75.7
0°-180°	6876.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	655	655	655	655	655	
5°	657	650	652	650	649	62
15°	625	617	618	617	616	176
25°	571	562	561	558	559	263
35°	491	484	484	480	481	307
45°	395	391	390	388	388	305
55°	293	292	293	289	288	261
65°	185	191	194	187	181	184
75°	85	93	98	92	83	92
85°	14	19	21	20	19	19
90°	2	5	11	12	11	4
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°	655.1	655.1	655.1	655.1	655.1
2.5°	658.8	653.4	655.1	653.6	650.5
5°	656.8	649.5	651.6	649.9	648.8
7.5°	650.1	643.4	644.9	643.1	642.4
10°	644.1	637.4	638.9	636.6	635.5
12.5°	637.2	630.0	631.6	629.2	628.6
15°	625.1	617.2	618.2	617.0	615.9
17.5°	611.0	603.0	603.2	601.3	601.1
20°	600.8	592.4	591.6	589.3	590.5
22.5°	589.8	580.9	580.1	576.9	578.5
25°	571.4	561.8	561.0	557.6	559.3
27.5°	550.2	540.7	540.7	535.9	537.7
30°	534.5	525.4	526.4	520.7	522.9
32.5°	517.9	509.7	510.2	504.5	506.8
35°	491.2	484.4	484.3	479.7	481.4
37.5°	463.9	458.0	457.0	454.4	454.8
40°	445.0	439.9	438.1	436.4	436.4
42.5°	425.2	420.5	418.7	417.4	417.0
45°	394.8	391.4	389.6	388.4	387.9
47.5°	364.8	361.6	360.0	359.2	358.7
50°	344.0	341.7	341.1	339.4	338.8
52.5°	323.2	321.9	321.3	319.1	318.5
55°	292.6	292.1	292.6	288.6	288.0
57.5°	260.8	261.7	263.5	258.1	256.7
60°	239.5	241.8	244.1	237.7	235.5
62.5°	217.8	221.4	224.8	217.4	214.3
65°	185.3	190.9	194.5	186.9	180.7
67.5°	153.9	160.9	165.2	157.0	150.0
70°	132.2	140.1	144.9	136.6	128.7
72.5°	113.2	122.0	125.9	118.1	110.2
75°	85.4	93.3	98.1	91.6	83.1
77.5°	60.6	68.1	72.0	66.3	59.3
80°	44.4	52.3	55.4	50.7	45.0
82.5°	31.5	38.1	40.2	37.3	33.5
85°	14.4	18.9	21.4	20.2	19.0
87.5°	4.0	7.9	11.0	11.2	11.5
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)