

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: P562458

Luminaire Tested: **SQ4-PW1-150U-050D-92765-1D-UNV-STD-W-4 (5000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562458
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, 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-92765-1D-UNV-STD-W-4 (5000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

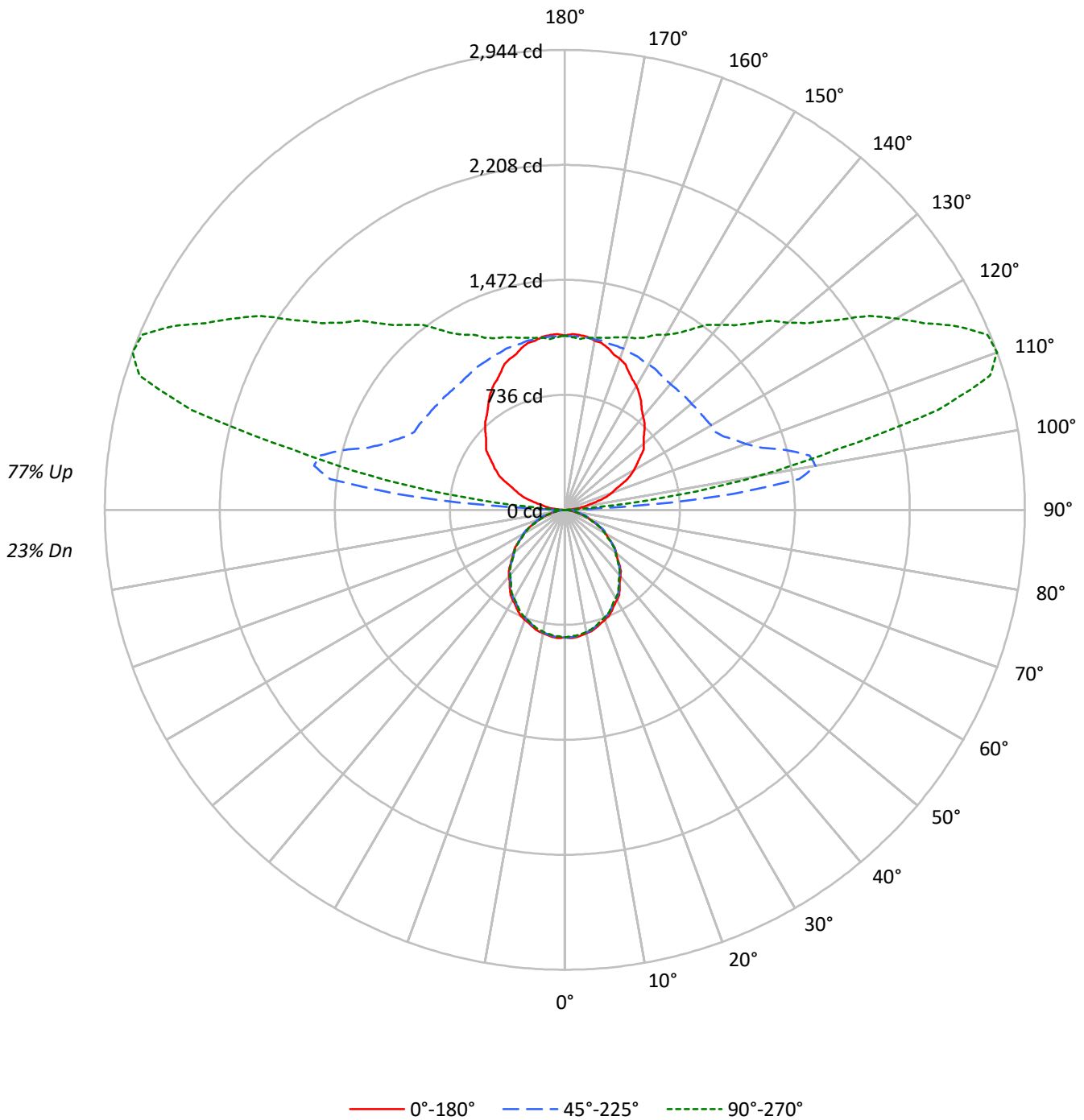
Lumens per Lamp: N/A
Luminaire Lumens: 9002.3 lumens
Efficiency: N/A
Efficacy: 125.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 71.8
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	101	101	101	101	89	89	89	89	68	68	68	49	49	49	31	31	31	23
1	92	88	84	81	81	78	75	72	60	58	56	43	42	41	28	27	27	20
2	84	77	71	66	74	68	63	59	52	49	46	38	36	34	24	23	22	16
3	76	67	60	55	67	60	54	49	46	42	39	33	31	29	22	20	19	14
4	70	59	52	46	62	53	47	42	41	37	33	30	27	25	19	18	16	12
5	64	53	45	39	56	47	41	36	37	32	28	27	24	21	17	16	14	10
6	59	47	39	34	52	42	36	31	33	28	25	24	21	18	16	14	13	9
7	54	42	35	29	48	38	31	27	30	25	21	22	19	16	14	13	11	8
8	50	38	31	26	44	34	28	24	27	22	19	20	17	14	13	11	10	7
9	46	35	28	23	41	31	25	21	24	20	17	18	15	13	12	10	9	7
10	43	32	25	20	38	29	23	18	22	18	15	17	14	11	11	9	8	6

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7536	7536	7536
5°	7585	7525	7492
10°	7525	7464	7424
15°	7445	7362	7335
20°	7356	7243	7228
25°	7253	7121	7100
30°	7099	6993	6946
35°	6899	6801	6760
40°	6683	6578	6553
45°	6423	6339	6310
50°	6156	6105	6064
55°	5870	5870	5776
60°	5512	5617	5418
65°	5043	5294	4919
70°	4446	4872	4330
75°	3796	4360	3693
80°	2943	3671	2981
85°	1905	2816	2509



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.9	0.9
10°-20°	217.2	2.4
20°-30°	322.1	3.6
30°-40°	376.9	4.2
40°-50°	375.2	4.2
50°-60°	324.0	3.6
60°-70°	233.2	2.6
70°-80°	122.3	1.4
80°-90°	30.3	0.3
90°-100°	507.9	5.6
100°-110°	1445.2	16.1
110°-120°	1384.7	15.4
120°-130°	1095.9	12.2
130°-140°	879.7	9.8
140°-150°	688.7	7.6
150°-160°	503.9	5.6
160°-170°	312.1	3.5
170°-180°	105.9	1.2
0°-30°	616.2	6.8
0°-40°	993.1	11.0
0°-60°	1692.4	18.8
0°-90°	2078.3	23.1
90°-120°	3337.9	37.1
90°-150°	6002.1	66.7
90°-180°	6924.0	76.9
0°-180°	9002.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	817	817	817	817	817	
5°	819	810	812	810	809	78
15°	779	770	771	769	768	220
25°	712	700	700	695	697	328
35°	612	604	604	598	600	383
45°	492	488	486	484	484	380
55°	365	364	365	360	359	326
65°	231	238	242	233	225	229
75°	106	116	122	114	104	114
85°	18	24	27	25	24	24
90°	0	0	0	0	0	3
95°	55	219	983	340	210	63
105°	225	341	1473	2602	2473	238
115°	418	504	1117	2366	2778	411
125°	589	653	1066	1769	2115	527
135°	720	781	1053	1494	1689	556
145°	850	893	1062	1293	1409	531
155°	971	993	1087	1169	1216	449
165°	1072	1076	1100	1124	1140	302
175°	1123	1117	1113	1106	1098	106
180°	1115	1115	1115	1115	1115	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	816.8	816.8	816.8	816.8	816.8
2.5°	821.5	814.7	816.8	815.0	811.1
5°	819.0	809.9	812.5	810.3	808.9
7.5°	810.7	802.2	804.2	801.9	801.0
10°	803.2	794.7	796.7	793.8	792.4
12.5°	794.5	785.5	787.5	784.6	783.7
15°	779.4	769.6	770.8	769.3	767.9
17.5°	761.9	751.9	752.1	749.8	749.5
20°	749.2	738.6	737.7	734.8	736.2
22.5°	735.4	724.3	723.3	719.3	721.3
25°	712.5	700.5	699.5	695.3	697.4
27.5°	686.0	674.2	674.2	668.2	670.5
30°	666.4	655.2	656.4	649.2	652.0
32.5°	645.7	635.6	636.2	629.1	631.9
35°	612.5	604.0	603.8	598.1	600.2
37.5°	578.5	571.0	569.9	566.6	567.1
40°	554.9	548.5	546.2	544.1	544.1
42.5°	530.1	524.4	522.1	520.5	519.9
45°	492.3	488.0	485.8	484.3	483.6
47.5°	454.8	450.9	448.9	447.9	447.2
50°	428.9	426.1	425.3	423.2	422.5
52.5°	403.0	401.3	400.6	397.8	397.1
55°	364.9	364.2	364.9	359.8	359.1
57.5°	325.2	326.3	328.6	321.8	320.1
60°	298.7	301.5	304.4	296.4	293.6
62.5°	271.6	276.1	280.2	271.1	267.1
65°	231.0	238.1	242.5	233.0	225.3
67.5°	191.9	200.6	206.0	195.7	187.0
70°	164.8	174.7	180.6	170.3	160.5
72.5°	141.2	152.2	157.0	147.3	137.5
75°	106.5	116.4	122.3	114.2	103.6
77.5°	75.6	84.9	89.8	82.7	74.0
80°	55.4	65.3	69.1	63.2	56.1
82.5°	39.3	47.5	50.1	46.5	41.7
85°	18.0	23.6	26.6	25.2	23.7
87.5°	4.6	8.5	10.9	11.0	11.5
90°	0.0	0.0	0.0	0.0	0.0
92.5°	17.0	89.9	208.5	60.7	45.8
95°	55.1	218.8	983.3	340.3	209.8
97.5°	101.3	256.3	1514.4	1083.6	742.6
100°	133.5	278.6	1629.6	1650.7	1271.5
102.5°	169.1	302.6	1604.2	2112.9	1781.8
105°	224.6	340.7	1472.8	2601.5	2473.1
107.5°	281.0	385.0	1319.4	2739.3	2853.7
110°	320.0	417.4	1231.2	2686.6	2943.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	357.3	449.7	1171.9	2561.9	2928.3
115°	417.5	504.5	1116.8	2365.9	2778.2
117.5°	470.5	552.1	1084.2	2151.6	2588.3
120°	512.8	581.2	1080.8	2029.1	2447.6
122.5°	546.7	615.1	1072.3	1921.6	2310.3
125°	589.1	653.4	1065.9	1768.9	2114.9
127.5°	635.3	695.4	1062.5	1677.6	1962.8
130°	659.1	719.1	1057.5	1614.1	1862.7
132.5°	684.5	742.9	1057.5	1564.5	1793.2
135°	720.5	780.6	1053.2	1494.2	1689.0
137.5°	754.4	812.9	1052.8	1434.7	1602.9
140°	779.9	839.9	1051.1	1385.4	1547.0
142.5°	808.7	858.8	1056.2	1346.0	1491.0
145°	849.8	893.3	1061.7	1293.2	1409.2
147.5°	885.0	927.2	1071.0	1239.9	1340.2
150°	915.5	944.5	1074.4	1222.2	1292.7
152.5°	939.2	969.9	1077.8	1198.4	1263.9
155°	970.6	993.4	1087.1	1168.7	1216.4
157.5°	1009.6	1023.2	1089.2	1155.3	1189.3
160°	1029.9	1040.3	1097.7	1145.0	1174.0
162.5°	1041.8	1053.8	1099.4	1136.4	1158.8
165°	1072.3	1076.4	1099.8	1123.5	1140.1
167.5°	1093.1	1089.3	1109.6	1120.3	1127.0
170°	1099.8	1097.8	1106.2	1108.5	1116.8
172.5°	1115.1	1108.1	1111.3	1105.1	1111.7
175°	1123.2	1116.9	1112.6	1106.0	1097.7
177.5°	1126.5	1116.6	1111.3	1104.5	1106.2
180°	1114.7	1114.7	1114.7	1114.7	1114.7

(END OF REPORT)