

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: P519468

Luminaire Tested: **SQ4-WB-125U-050D-935-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519468
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G2-2009-966-13)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-WB-125U-050D-935-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

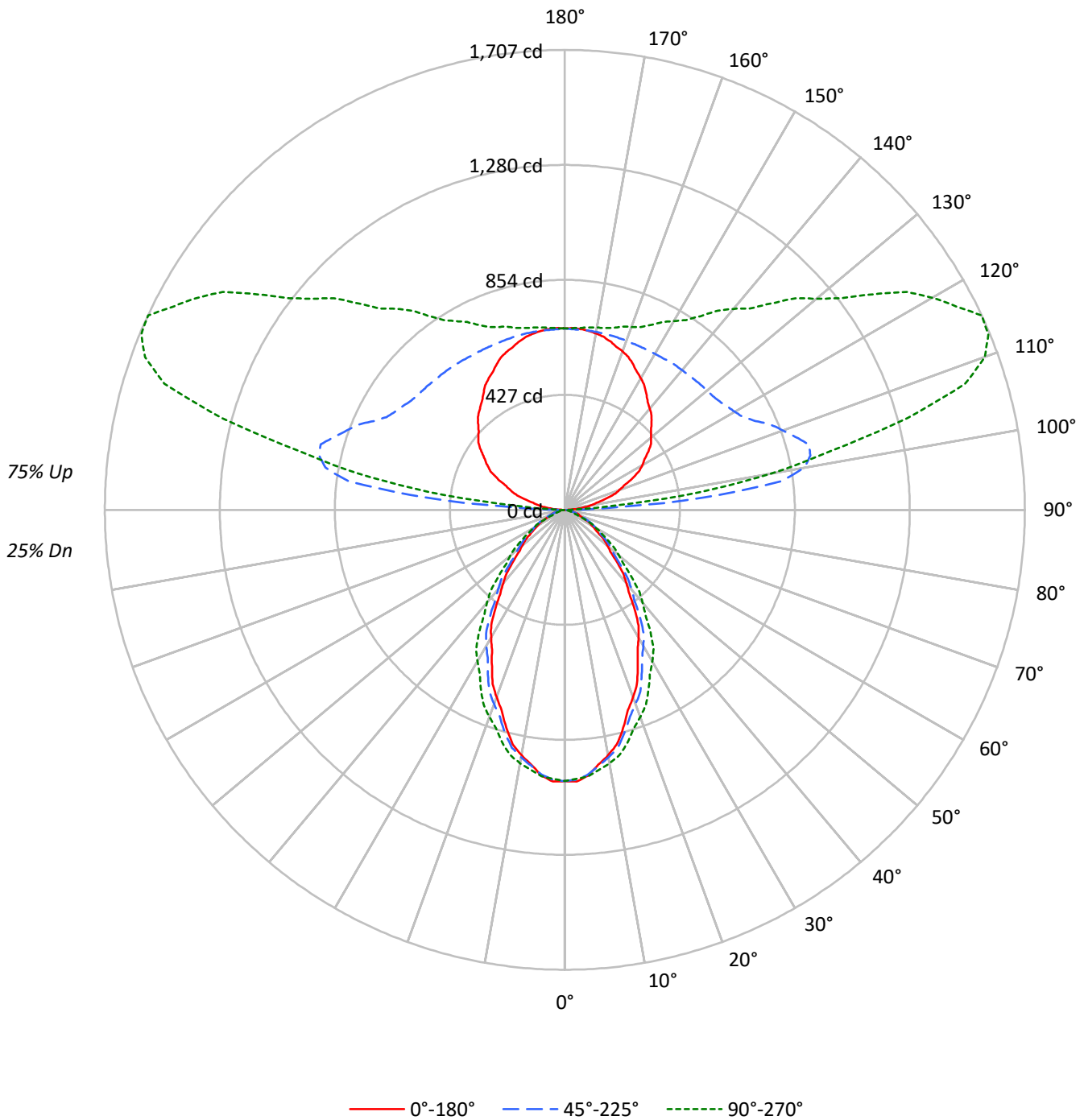
Lumens per Lamp: N/A
Luminaire Lumens: 5812.4 lumens
Efficiency: N/A
Efficacy: 121.3 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 47.9
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	70	70	70	51	51	51	33	33	33	25
1	93	89	85	82	83	79	76	74	62	60	58	45	44	43	30	30	29	22
2	85	78	73	68	76	70	65	62	55	52	49	41	39	37	27	26	26	20
3	78	69	63	57	69	62	57	52	49	45	42	36	34	32	25	24	22	17
4	71	62	54	49	64	55	49	45	44	39	36	33	30	28	23	21	20	16
5	66	55	48	42	59	50	43	38	39	35	31	30	27	24	21	19	18	14
6	61	49	42	37	54	45	38	34	36	31	28	27	24	22	19	17	16	13
7	56	45	37	32	50	40	34	30	32	28	24	25	22	19	17	16	14	11
8	52	41	33	29	46	37	31	26	30	25	22	23	20	17	16	14	13	10
9	48	37	30	25	43	34	28	23	27	23	20	21	18	16	15	13	12	10
10	45	34	27	23	41	31	25	21	25	21	18	19	16	14	14	12	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9288	9288	9288
5°	9173	9139	9193
10°	8666	8745	8947
15°	8000	8186	8553
20°	7265	7538	8036
25°	6516	6871	7487
30°	5826	6207	6917
35°	5094	5463	6244
40°	4288	4628	5405
45°	3539	3844	4513
50°	2954	3221	3759
55°	2508	2763	3104
60°	2144	2397	2478
65°	1707	2015	1600
70°	1513	1573	977
75°	1401	1276	599
80°	1291	1174	515
85°	1164	1080	423



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.3	1.6
10°-20°	240.2	4.1
20°-30°	311.1	5.4
30°-40°	304.6	5.2
40°-50°	233.2	4.0
50°-60°	155.4	2.7
60°-70°	84.8	1.5
70°-80°	35.3	0.6
80°-90°	11.6	0.2
90°-100°	314.8	5.4
100°-110°	847.9	14.6
110°-120°	889.9	15.3
120°-130°	722.1	12.4
130°-140°	566.3	9.7
140°-150°	434.8	7.5
150°-160°	312.6	5.4
160°-170°	191.0	3.3
170°-180°	64.4	1.1
0°-30°	643.6	11.1
0°-40°	948.3	16.3
0°-60°	1336.8	23.0
0°-90°	1468.5	25.3
90°-120°	2052.6	35.3
90°-150°	3775.9	65.0
90°-180°	4344.0	74.7
0°-180°	5812.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1007	1007	1007	1007	1007	
5°	990	980	987	989	993	92
15°	838	834	857	880	895	234
25°	640	642	675	704	736	294
35°	452	454	485	518	554	281
45°	271	276	295	317	346	211
55°	156	162	172	178	193	141
65°	78	85	92	81	73	81
75°	39	39	36	25	17	42
85°	11	11	10	7	4	12
90°	2	5	10	11	11	4
95°	48	171	516	264	183	50
105°	157	244	938	1403	1317	165
115°	277	339	781	1509	1707	272
125°	378	434	701	1185	1395	338
135°	455	508	682	956	1083	351
145°	526	567	673	817	878	330
155°	598	619	667	733	757	275
165°	648	656	670	696	700	183
175°	674	673	670	680	678	64
180°	673	673	673	673	673	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1006.7	1006.7	1006.7	1006.7	1006.7
2.5°	1009.2	1000.2	1002.5	1002.4	999.6
5°	990.4	980.4	986.8	989.1	992.6
7.5°	953.6	946.1	957.8	966.4	973.4
10°	925.0	918.5	933.4	946.0	955.0
12.5°	891.8	886.3	904.8	921.6	933.5
15°	837.5	834.5	857.0	880.3	895.4
17.5°	779.5	778.0	803.8	831.0	850.3
20°	739.9	739.5	767.7	796.1	818.5
22.5°	700.0	700.9	730.6	760.1	785.7
25°	640.1	641.8	675.0	704.4	735.5
27.5°	584.7	585.5	619.7	650.8	684.0
30°	546.9	549.0	582.6	614.8	649.3
32.5°	509.1	511.6	544.5	577.7	612.9
35°	452.3	454.5	485.0	517.7	554.4
37.5°	393.8	396.8	423.9	454.7	490.9
40°	356.0	360.4	384.3	413.4	448.8
42.5°	319.6	325.0	347.2	374.8	406.7
45°	271.2	276.4	294.6	316.9	345.9
47.5°	229.5	235.5	249.5	268.7	293.4
50°	205.8	211.5	224.4	238.6	261.9
52.5°	185.0	190.6	202.1	213.1	233.0
55°	155.9	162.4	171.8	178.4	193.0
57.5°	132.1	138.3	145.8	148.7	157.6
60°	116.2	123.1	129.9	129.5	134.3
62.5°	101.7	107.6	114.3	109.6	109.9
65°	78.2	84.7	92.3	80.7	73.3
67.5°	63.2	64.5	72.4	56.3	47.5
70°	56.1	56.1	58.3	43.6	36.2
72.5°	49.4	49.4	47.4	35.4	27.7
75°	39.3	39.3	35.8	24.6	16.8
77.5°	30.3	30.0	27.4	18.3	12.2
80°	24.3	24.3	22.1	14.5	9.7
82.5°	19.0	19.0	17.1	11.3	7.2
85°	11.0	11.0	10.2	6.6	4.0
87.5°	4.2	4.9	5.6	4.3	4.0
90°	1.7	5.1	10.3	11.1	11.1
92.5°	20.9	73.9	146.1	70.3	48.9
95°	48.0	171.2	516.0	263.9	182.6
97.5°	76.6	196.0	809.3	676.1	509.9
100°	98.6	205.9	902.6	944.4	783.5
102.5°	119.8	219.7	933.5	1145.3	1013.2
105°	156.9	244.0	937.8	1403.0	1316.6
107.5°	191.8	269.6	897.8	1535.4	1557.7
110°	215.2	288.9	861.5	1576.5	1657.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	239.8	308.2	826.5	1567.4	1701.0
115°	276.9	338.9	780.9	1508.8	1706.6
117.5°	310.6	368.8	745.6	1415.4	1635.7
120°	332.6	388.7	727.7	1348.3	1574.6
122.5°	351.8	407.3	714.7	1279.8	1505.4
125°	378.0	434.2	701.2	1185.1	1394.6
127.5°	403.2	458.5	692.6	1101.6	1288.7
130°	418.3	473.6	689.2	1053.8	1218.1
132.5°	433.4	488.0	685.7	1011.6	1162.5
135°	455.2	508.0	681.5	956.1	1082.6
137.5°	475.9	526.5	679.2	908.9	1012.8
140°	490.3	538.9	677.2	879.9	973.8
142.5°	505.4	550.7	675.8	852.8	931.9
145°	526.3	567.4	672.9	817.4	877.8
147.5°	548.9	584.6	670.0	787.6	835.1
150°	564.0	595.0	668.6	768.9	808.3
152.5°	577.7	604.7	667.9	753.7	785.7
155°	597.5	619.2	666.9	733.4	756.9
157.5°	614.8	631.7	667.1	719.2	734.9
160°	625.7	640.0	667.7	710.9	722.6
162.5°	635.3	646.9	668.4	703.9	712.3
165°	648.0	655.6	669.5	696.1	699.5
167.5°	658.3	662.7	670.3	690.1	691.4
170°	665.2	666.8	670.3	686.6	686.6
172.5°	669.3	669.6	671.0	683.2	683.2
175°	673.7	672.9	670.3	679.7	678.0
177.5°	675.6	674.3	670.8	676.3	674.9
180°	672.9	672.9	672.9	672.9	672.9

(END OF REPORT)