

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: P519492

Luminaire Tested: **SQ4-WB-125U-075D-935-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519492
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-075D-935-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

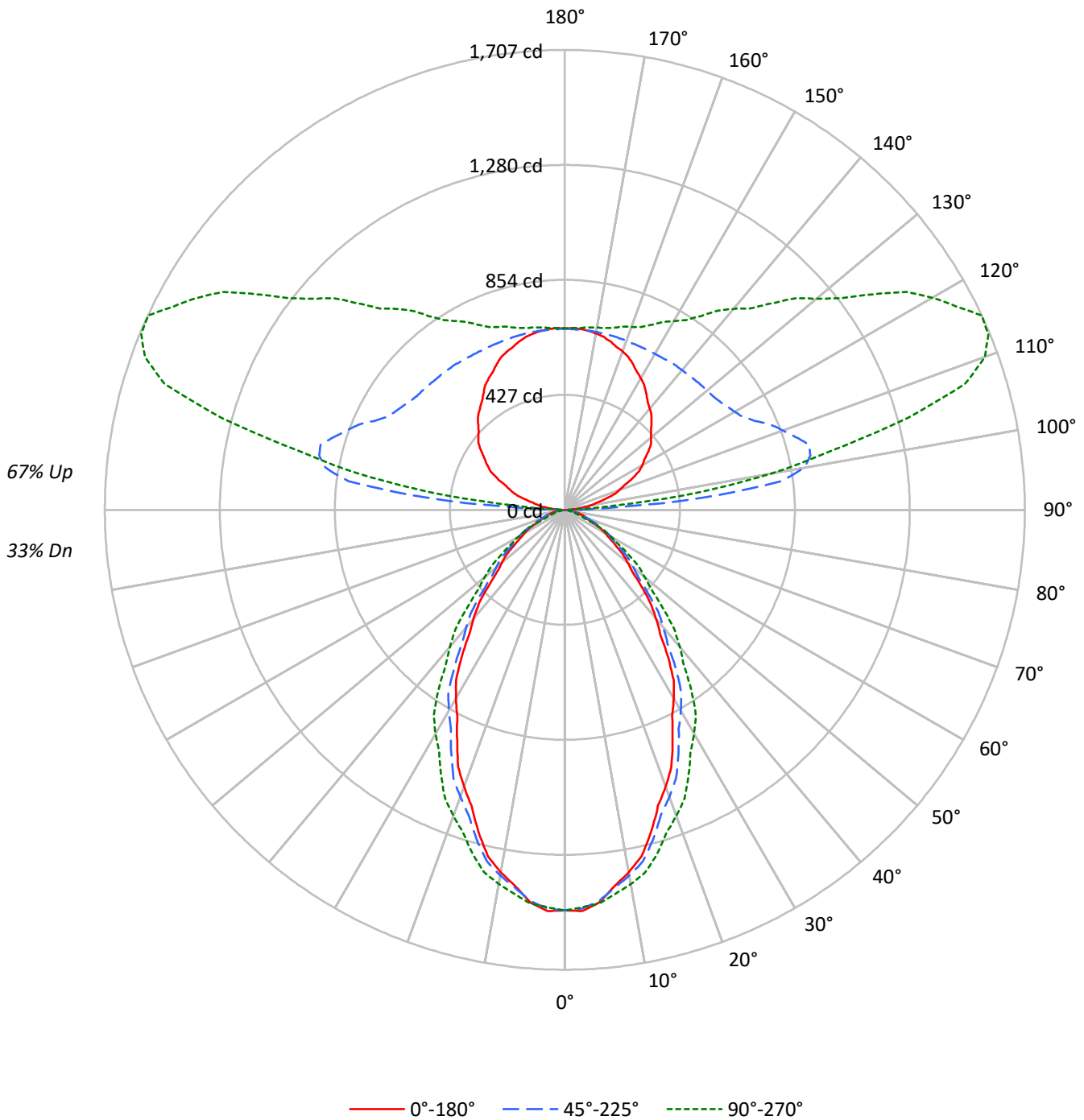
Lumens per Lamp: N/A
Luminaire Lumens: 6511.9 lumens
Efficiency: N/A
Efficacy: 116.9 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 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	103	103	103	103	93	93	93	93	74	74	74	57	57	57	41	41	41	33				
1	95	91	87	84	85	82	79	77	66	64	62	51	50	49	37	36	36	30				
2	87	80	75	70	78	73	68	64	59	55	53	46	44	42	34	32	31	26				
3	80	71	65	59	72	65	59	54	52	48	45	41	38	36	31	29	28	23				
4	73	63	56	51	66	58	52	47	47	43	39	37	34	32	28	26	25	21				
5	68	57	49	44	61	52	45	41	42	38	34	34	31	28	26	24	22	18				
6	62	51	44	38	56	47	40	36	39	34	30	31	27	25	23	21	20	17				
7	58	46	39	34	52	43	36	32	35	30	27	28	25	22	22	19	18	15				
8	54	42	35	30	49	39	33	28	32	27	24	26	23	20	20	18	16	14				
9	50	39	32	27	45	36	29	25	30	25	22	24	21	18	19	16	15	13				
10	47	36	29	24	43	33	27	23	27	23	20	22	19	17	17	15	14	12				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13718	13718	13718
5°	13546	13498	13576
10°	12798	12915	13213
15°	11814	12089	12631
20°	10728	11132	11869
25°	9623	10147	11058
30°	8604	9167	10217
35°	7524	8068	9221
40°	6333	6836	7983
45°	5227	5677	6665
50°	4363	4757	5553
55°	3704	4082	4586
60°	3166	3539	3659
65°	2521	2976	2364
70°	2236	2323	1443
75°	2071	1882	884
80°	1907	1732	765
85°	1725	1588	625



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.4	2.1
10°-20°	354.7	5.4
20°-30°	459.5	7.1
30°-40°	449.9	6.9
40°-50°	344.4	5.3
50°-60°	229.5	3.5
60°-70°	125.2	1.9
70°-80°	52.2	0.8
80°-90°	16.4	0.3
90°-100°	314.8	4.8
100°-110°	847.9	13.0
110°-120°	889.9	13.7
120°-130°	722.1	11.1
130°-140°	566.3	8.7
140°-150°	434.8	6.7
150°-160°	312.6	4.8
160°-170°	191.0	2.9
170°-180°	64.4	1.0
0°-30°	950.5	14.6
0°-40°	1400.4	21.5
0°-60°	1974.3	30.3
0°-90°	2168.1	33.3
90°-120°	2052.6	31.5
90°-150°	3775.9	58.0
90°-180°	4344.0	66.7
0°-180°	6511.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1487	1487	1487	1487	1487	
5°	1463	1448	1457	1461	1466	136
15°	1237	1232	1266	1300	1322	345
25°	945	948	997	1040	1086	435
35°	668	671	716	764	819	415
45°	401	408	435	468	511	312
55°	230	240	254	263	285	209
65°	116	125	136	119	108	120
75°	58	58	53	36	25	62
85°	16	16	15	10	6	18
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°	1486.8	1486.8	1486.8	1486.8	1486.8
2.5°	1490.4	1477.2	1480.5	1480.4	1476.3
5°	1462.6	1448.0	1457.4	1460.8	1465.9
7.5°	1408.4	1397.3	1414.5	1427.3	1437.6
10°	1366.1	1356.5	1378.5	1397.1	1410.4
12.5°	1317.0	1309.0	1336.2	1361.1	1378.6
15°	1236.9	1232.4	1265.6	1300.0	1322.4
17.5°	1151.2	1149.0	1187.1	1227.3	1255.8
20°	1092.7	1092.1	1133.8	1175.7	1208.9
22.5°	1033.8	1035.2	1079.0	1122.6	1160.3
25°	945.3	947.9	996.8	1040.3	1086.2
27.5°	863.5	864.6	915.3	961.2	1010.1
30°	807.6	810.8	860.5	908.0	959.0
32.5°	751.8	755.5	804.1	853.2	905.2
35°	668.0	671.2	716.3	764.5	818.7
37.5°	581.7	586.0	626.0	671.6	724.9
40°	525.8	532.2	567.6	610.5	662.8
42.5°	472.1	480.0	512.8	553.5	600.7
45°	400.6	408.2	435.1	468.1	510.8
47.5°	339.0	347.8	368.5	396.8	433.3
50°	304.0	312.3	331.4	352.4	386.9
52.5°	273.2	281.5	298.5	314.7	344.1
55°	230.3	239.9	253.8	263.4	285.1
57.5°	195.1	204.2	215.3	219.6	232.8
60°	171.6	181.8	191.8	191.3	198.3
62.5°	150.2	158.9	168.8	161.9	162.3
65°	115.5	125.0	136.3	119.1	108.3
67.5°	93.3	95.3	107.0	83.1	70.2
70°	82.9	82.9	86.1	64.3	53.5
72.5°	72.9	72.9	69.9	52.3	41.0
75°	58.1	58.1	52.8	36.3	24.8
77.5°	44.8	44.2	40.4	27.1	18.0
80°	35.9	35.9	32.6	21.4	14.4
82.5°	28.1	28.1	25.3	16.7	10.7
85°	16.3	16.3	15.0	9.7	5.9
87.5°	6.1	6.8	7.3	5.3	4.8
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)