

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: P519473

Luminaire Tested: **SQ4-WB-125U-050D-940-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519473
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-940-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

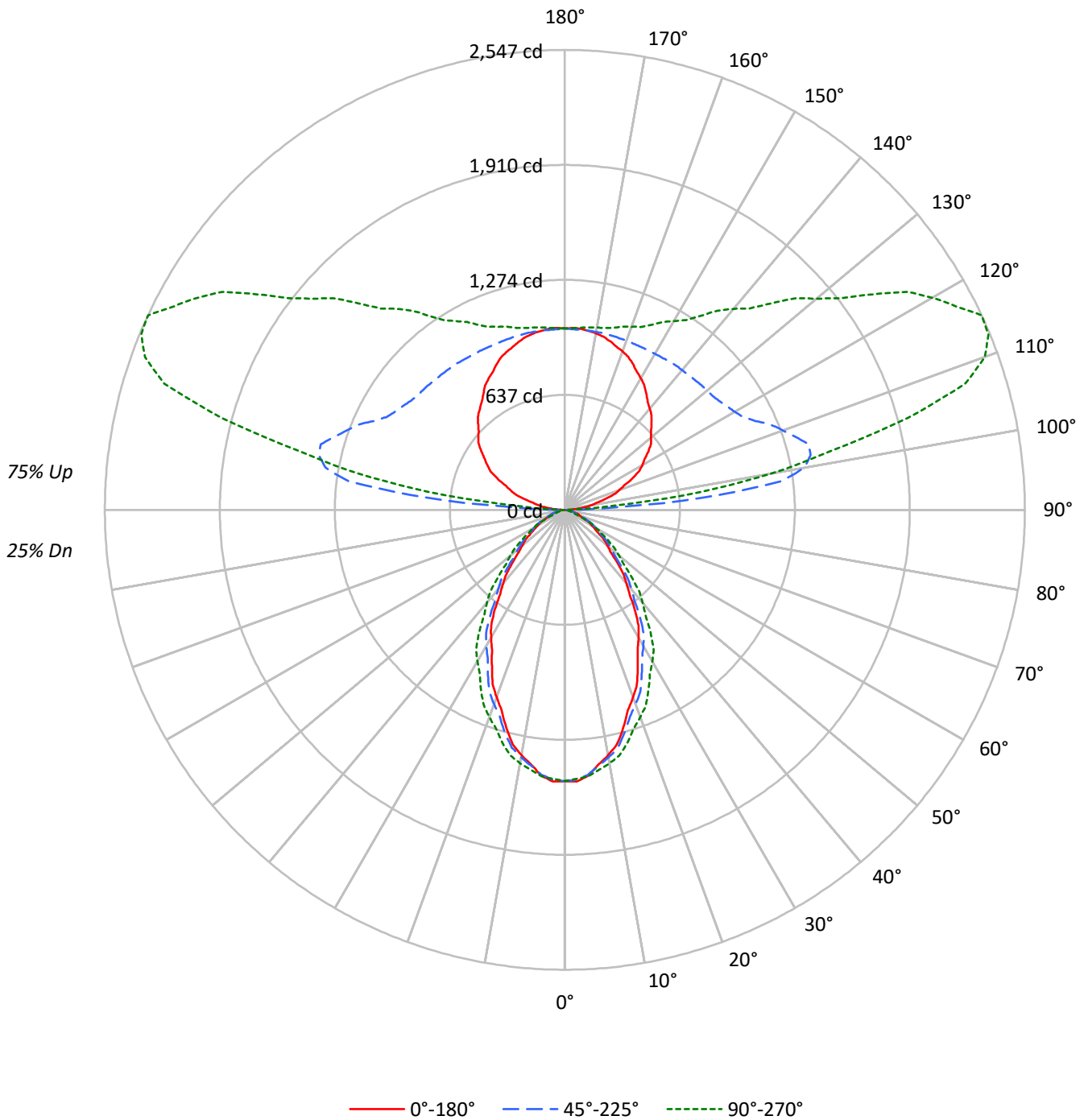
Lumens per Lamp: N/A
Luminaire Lumens: 8674.3 lumens
Efficiency: N/A
Efficacy: 116.9 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 74.2
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°	9241	9241	9241
5°	9126	9093	9146
10°	8622	8700	8902
15°	7959	8144	8509
20°	7228	7499	7996
25°	6483	6836	7449
30°	5796	6175	6883
35°	5069	5435	6212
40°	4266	4605	5378
45°	3521	3825	4490
50°	2940	3205	3741
55°	2495	2750	3089
60°	2133	2384	2465
65°	1698	2006	1592
70°	1505	1565	973
75°	1395	1269	596
80°	1286	1169	514
85°	1164	1073	416



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.8	1.6
10°-20°	358.4	4.1
20°-30°	464.3	5.4
30°-40°	454.6	5.2
40°-50°	348.0	4.0
50°-60°	231.9	2.7
60°-70°	126.5	1.5
70°-80°	52.7	0.6
80°-90°	17.3	0.2
90°-100°	469.8	5.4
100°-110°	1265.4	14.6
110°-120°	1328.0	15.3
120°-130°	1077.7	12.4
130°-140°	845.2	9.7
140°-150°	648.9	7.5
150°-160°	466.6	5.4
160°-170°	285.0	3.3
170°-180°	96.1	1.1
0°-30°	960.5	11.1
0°-40°	1415.2	16.3
0°-60°	1995.1	23.0
0°-90°	2191.6	25.3
90°-120°	3063.3	35.3
90°-150°	5635.0	65.0
90°-180°	6483.0	74.7
0°-180°	8674.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1502	1502	1502	1502	1502	
5°	1478	1463	1473	1476	1481	137
15°	1250	1245	1279	1314	1336	349
25°	955	958	1007	1051	1098	439
35°	675	678	724	772	827	420
45°	405	412	440	473	516	316
55°	233	242	256	266	288	211
65°	117	126	138	120	109	121
75°	59	59	53	37	25	63
85°	16	16	15	10	6	18
90°	3	8	15	17	17	6
95°	72	256	770	394	272	75
105°	234	364	1400	2094	1965	246
115°	413	506	1165	2252	2547	407
125°	564	648	1046	1769	2081	504
135°	679	758	1017	1427	1616	524
145°	786	847	1004	1220	1310	493
155°	892	924	995	1094	1130	410
165°	967	978	999	1039	1044	273
175°	1006	1004	1000	1014	1012	96
180°	1004	1004	1004	1004	1004	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1502.4	1502.4	1502.4	1502.4	1502.4
2.5°	1506.1	1492.7	1496.1	1496.0	1491.8
5°	1478.0	1463.2	1472.7	1476.1	1481.3
7.5°	1423.2	1411.9	1429.3	1442.2	1452.7
10°	1380.4	1370.8	1393.0	1411.7	1425.3
12.5°	1330.9	1322.7	1350.2	1375.4	1393.1
15°	1249.9	1245.4	1278.9	1313.7	1336.3
17.5°	1163.3	1161.1	1199.5	1240.1	1269.0
20°	1104.2	1103.6	1145.7	1188.0	1221.6
22.5°	1044.6	1046.0	1090.4	1134.4	1172.5
25°	955.2	957.8	1007.3	1051.2	1097.6
27.5°	872.6	873.7	924.9	971.3	1020.8
30°	816.1	819.4	869.5	917.5	969.1
32.5°	759.7	763.4	812.6	862.2	914.8
35°	675.1	678.3	723.8	772.5	827.3
37.5°	587.8	592.2	632.6	678.7	732.5
40°	531.3	537.8	573.5	616.9	669.8
42.5°	477.0	485.0	518.2	559.3	607.0
45°	404.8	412.5	439.7	473.0	516.2
47.5°	342.5	351.4	372.3	401.0	437.9
50°	307.2	315.6	334.9	356.1	390.9
52.5°	276.1	284.5	301.7	318.0	347.7
55°	232.7	242.4	256.4	266.2	288.1
57.5°	197.1	206.4	217.5	221.9	235.2
60°	173.4	183.7	193.8	193.3	200.4
62.5°	151.8	160.5	170.6	163.6	164.0
65°	116.7	126.4	137.8	120.4	109.4
67.5°	94.3	96.3	108.1	84.0	70.9
70°	83.7	83.7	87.0	65.0	54.1
72.5°	73.7	73.7	70.7	52.9	41.4
75°	58.7	58.7	53.4	36.7	25.1
77.5°	45.2	44.7	40.9	27.3	18.2
80°	36.3	36.3	33.0	21.6	14.5
82.5°	28.3	28.3	25.6	16.9	10.8
85°	16.5	16.5	15.2	9.8	5.9
87.5°	6.3	7.3	8.3	6.5	6.0
90°	2.6	7.6	15.4	16.6	16.6
92.5°	31.2	110.3	218.0	104.9	72.9
95°	71.6	255.5	770.1	393.8	272.5
97.5°	114.4	292.5	1207.9	1009.1	760.9
100°	147.1	307.2	1347.0	1409.4	1169.2
102.5°	178.8	327.9	1393.1	1709.2	1512.1
105°	234.1	364.2	1399.5	2093.7	1964.9
107.5°	286.3	402.4	1339.9	2291.4	2324.6
110°	321.1	431.2	1285.6	2352.7	2474.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	357.9	460.0	1233.4	2339.1	2538.5
115°	413.2	505.8	1165.4	2251.8	2547.0
117.5°	463.6	550.4	1112.7	2112.3	2441.0
120°	496.3	580.2	1086.1	2012.2	2350.0
122.5°	525.0	607.8	1066.6	1909.9	2246.6
125°	564.1	648.0	1046.4	1768.6	2081.3
127.5°	601.8	684.3	1033.6	1644.0	1923.2
130°	624.3	706.8	1028.5	1572.6	1817.8
132.5°	646.8	728.3	1023.4	1509.8	1734.9
135°	679.3	758.1	1017.0	1426.8	1615.7
137.5°	710.2	785.8	1013.7	1356.5	1511.6
140°	731.7	804.3	1010.6	1313.1	1453.2
142.5°	754.2	821.8	1008.6	1272.7	1390.8
145°	785.5	846.7	1004.2	1219.9	1309.9
147.5°	819.2	872.5	999.9	1175.4	1246.2
150°	841.7	888.0	997.8	1147.5	1206.3
152.5°	862.2	902.5	996.8	1124.8	1172.6
155°	891.6	924.2	995.2	1094.5	1129.6
157.5°	917.5	942.7	995.5	1073.3	1096.8
160°	933.8	955.1	996.5	1060.9	1078.4
162.5°	948.2	965.4	997.6	1050.5	1063.0
165°	967.1	978.4	999.1	1038.9	1043.9
167.5°	982.5	989.0	1000.4	1029.8	1031.8
170°	992.7	995.2	1000.4	1024.7	1024.7
172.5°	998.8	999.3	1001.4	1019.6	1019.6
175°	1005.5	1004.2	1000.4	1014.4	1011.9
177.5°	1008.3	1006.3	1001.1	1009.3	1007.3
180°	1004.2	1004.2	1004.2	1004.2	1004.2

(END OF REPORT)