

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: P519486

Luminaire Tested: **SQ4-WB-125U-075D-840-1D-UNV-STD-W-8**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519486
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-840-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

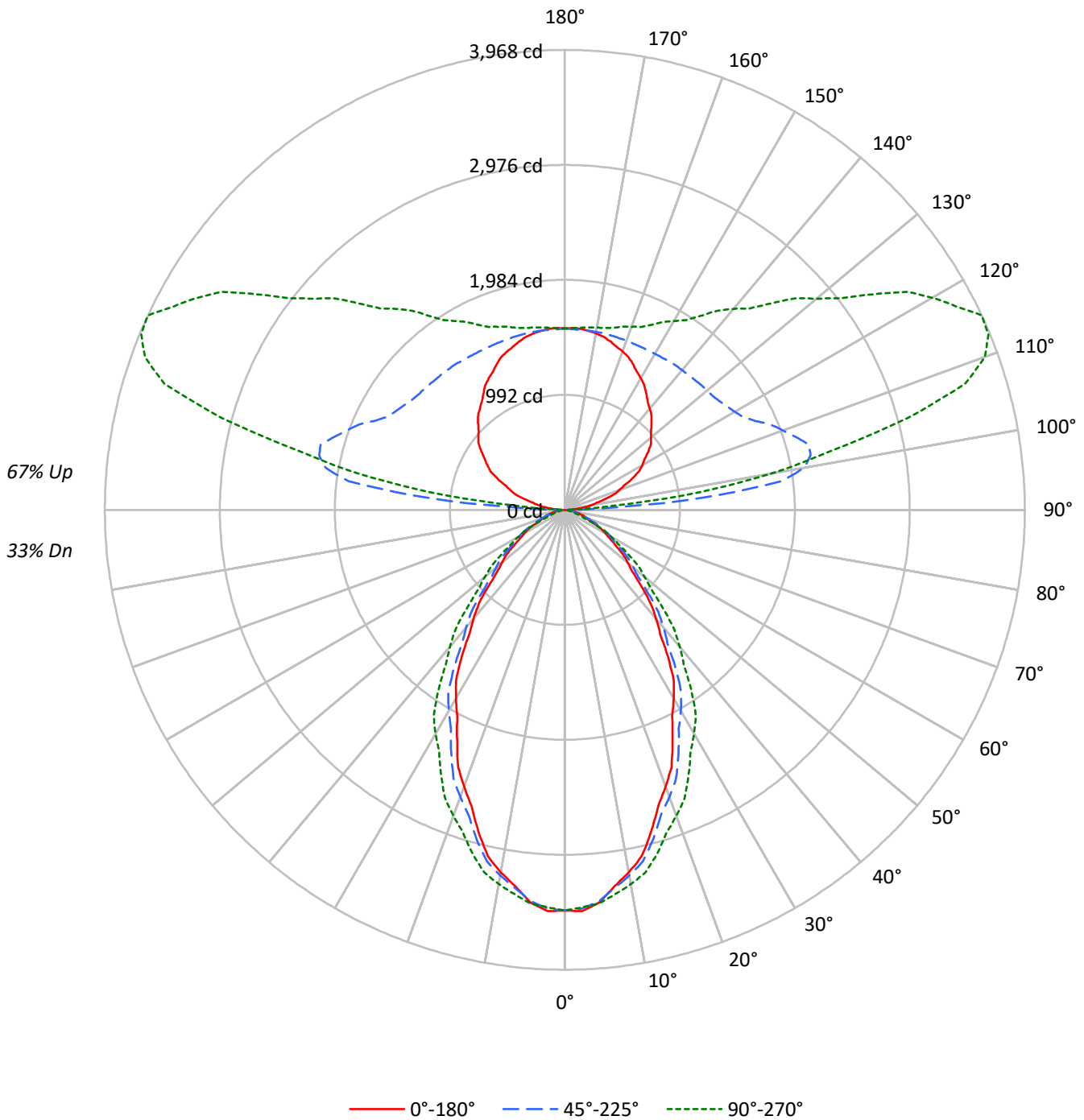
Lumens per Lamp: N/A
Luminaire Lumens: 15139.9 lumens
Efficiency: N/A
Efficacy: 130.5 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 116
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°	15946	15946	15946
5°	15747	15691	15782
10°	14878	15013	15361
15°	13734	14053	14683
20°	12472	12941	13797
25°	11187	11797	12854
30°	10002	10657	11877
35°	8746	9379	10720
40°	7362	7947	9280
45°	6076	6600	7748
50°	5072	5530	6455
55°	4306	4745	5331
60°	3680	4114	4254
65°	2931	3460	2749
70°	2598	2700	1678
75°	2406	2191	1027
80°	2216	2014	887
85°	2006	1847	725



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	317.1	2.1
10°-20°	824.7	5.4
20°-30°	1068.2	7.1
30°-40°	1046.0	6.9
40°-50°	800.7	5.3
50°-60°	533.5	3.5
60°-70°	291.1	1.9
70°-80°	121.3	0.8
80°-90°	38.0	0.3
90°-100°	731.8	4.8
100°-110°	1971.4	13.0
110°-120°	2068.9	13.7
120°-130°	1678.9	11.1
130°-140°	1316.7	8.7
140°-150°	1010.9	6.7
150°-160°	726.8	4.8
160°-170°	444.1	2.9
170°-180°	149.7	1.0
0°-30°	2209.9	14.6
0°-40°	3256.0	21.5
0°-60°	4590.2	30.3
0°-90°	5040.6	33.3
90°-120°	4772.2	31.5
90°-150°	8778.6	58.0
90°-180°	10099.0	66.7
0°-180°	15139.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3457	3457	3457	3457	3457	
5°	3400	3366	3388	3396	3408	316
15°	2876	2865	2942	3022	3074	803
25°	2198	2204	2318	2419	2525	1011
35°	1553	1561	1665	1778	1904	966
45°	931	949	1012	1088	1188	726
55°	535	558	590	612	663	485
65°	268	291	317	277	252	279
75°	135	135	123	84	58	144
85°	38	38	35	22	14	41
90°	4	12	24	26	26	10
95°	112	398	1200	614	424	117
105°	365	567	2180	3262	3061	383
115°	644	788	1816	3508	3968	633
125°	879	1009	1630	2755	3242	785
135°	1058	1181	1584	2223	2517	817
145°	1224	1319	1564	1900	2041	767
155°	1389	1440	1550	1705	1760	639
165°	1507	1524	1556	1618	1626	425
175°	1566	1564	1558	1580	1576	149
180°	1564	1564	1564	1564	1564	

TEST NUMBER: P519486

CATALOG NUMBER: SQ4-WB-125U-075D-840-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3456.7	3456.7	3456.7	3456.7	3456.7
2.5°	3465.2	3434.3	3442.1	3441.9	3432.4
5°	3400.5	3366.4	3388.4	3396.3	3408.1
7.5°	3274.4	3248.5	3288.6	3318.3	3342.3
10°	3176.1	3153.8	3204.9	3248.1	3279.2
12.5°	3062.0	3043.3	3106.6	3164.6	3205.2
15°	2875.8	2865.4	2942.5	3022.5	3074.4
17.5°	2676.5	2671.4	2759.9	2853.3	2919.7
20°	2540.6	2539.1	2636.1	2733.4	2810.5
22.5°	2403.4	2406.7	2508.7	2609.9	2697.7
25°	2197.8	2203.7	2317.6	2418.6	2525.4
27.5°	2007.6	2010.2	2128.0	2234.6	2348.5
30°	1877.7	1885.1	2000.6	2111.0	2229.6
32.5°	1747.9	1756.5	1869.5	1983.6	2104.6
35°	1553.1	1560.6	1665.4	1777.5	1903.5
37.5°	1352.3	1362.4	1455.5	1561.4	1685.4
40°	1222.5	1237.3	1319.6	1419.4	1541.0
42.5°	1097.5	1115.9	1192.2	1286.9	1396.6
45°	931.3	949.1	1011.7	1088.2	1187.6
47.5°	788.1	808.6	856.7	922.6	1007.4
50°	706.8	726.1	770.5	819.3	899.4
52.5°	635.2	654.5	694.1	731.7	799.9
55°	535.4	557.7	590.0	612.4	662.8
57.5°	453.5	474.9	500.5	510.6	541.2
60°	398.9	422.6	445.9	444.8	461.1
62.5°	349.2	369.3	392.5	376.5	377.4
65°	268.5	290.7	317.0	277.0	251.8
67.5°	216.9	221.6	248.7	193.2	163.2
70°	192.6	192.6	200.2	149.6	124.4
72.5°	169.6	169.6	162.6	121.6	95.3
75°	135.0	135.0	122.9	84.3	57.6
77.5°	104.0	102.9	94.0	62.9	41.9
80°	83.4	83.4	75.8	49.7	33.4
82.5°	65.2	65.2	58.8	38.8	24.9
85°	37.9	37.9	34.9	22.5	13.7
87.5°	14.1	15.7	16.9	12.4	11.2
90°	4.0	11.8	23.9	25.9	25.9
92.5°	48.6	171.8	339.6	163.5	113.6
95°	111.6	398.0	1199.7	613.5	424.5
97.5°	178.2	455.6	1881.7	1572.0	1185.4
100°	229.2	478.6	2098.5	2195.6	1821.5
102.5°	278.6	510.9	2170.3	2662.7	2355.6
105°	364.7	567.4	2180.2	3261.8	3061.1
107.5°	446.0	626.8	2087.4	3569.7	3621.5
110°	500.2	671.7	2002.9	3665.2	3854.3

TEST NUMBER: P519486

CATALOG NUMBER: SQ4-WB-125U-075D-840-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	557.6	716.6	1921.5	3644.1	3954.7
115°	643.7	787.9	1815.5	3508.0	3967.9
117.5°	722.2	857.5	1733.4	3290.7	3802.8
120°	773.2	903.8	1692.0	3134.8	3660.9
122.5°	817.9	946.9	1661.7	2975.4	3499.9
125°	878.9	1009.4	1630.2	2755.3	3242.4
127.5°	937.5	1066.1	1610.3	2561.2	2996.1
130°	972.5	1101.1	1602.3	2450.0	2831.9
132.5°	1007.6	1134.7	1594.3	2352.0	2702.8
135°	1058.2	1181.0	1584.4	2222.8	2517.0
137.5°	1106.5	1224.2	1579.2	2113.2	2354.8
140°	1139.9	1253.0	1574.4	2045.7	2263.9
142.5°	1175.0	1280.2	1571.2	1982.7	2166.7
145°	1223.6	1319.1	1564.4	1900.4	2040.7
147.5°	1276.2	1359.3	1557.6	1831.2	1941.5
150°	1311.3	1383.4	1554.5	1787.7	1879.3
152.5°	1343.2	1406.0	1552.9	1752.3	1826.7
155°	1389.0	1439.7	1550.5	1705.2	1759.7
157.5°	1429.3	1468.7	1550.9	1672.1	1708.7
160°	1454.8	1487.9	1552.5	1652.7	1680.0
162.5°	1477.1	1504.0	1554.1	1636.6	1656.1
165°	1506.6	1524.2	1556.5	1618.4	1626.2
167.5°	1530.5	1540.7	1558.4	1604.4	1607.5
170°	1546.5	1550.4	1558.4	1596.3	1596.3
172.5°	1556.1	1556.8	1560.0	1588.3	1588.3
175°	1566.4	1564.5	1558.4	1580.3	1576.4
177.5°	1570.8	1567.7	1559.6	1572.3	1569.2
180°	1564.4	1564.4	1564.4	1564.4	1564.4

(END OF REPORT)