

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: P519481

Luminaire Tested: **SQ4-WB-125U-075D-835-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519481
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-835-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

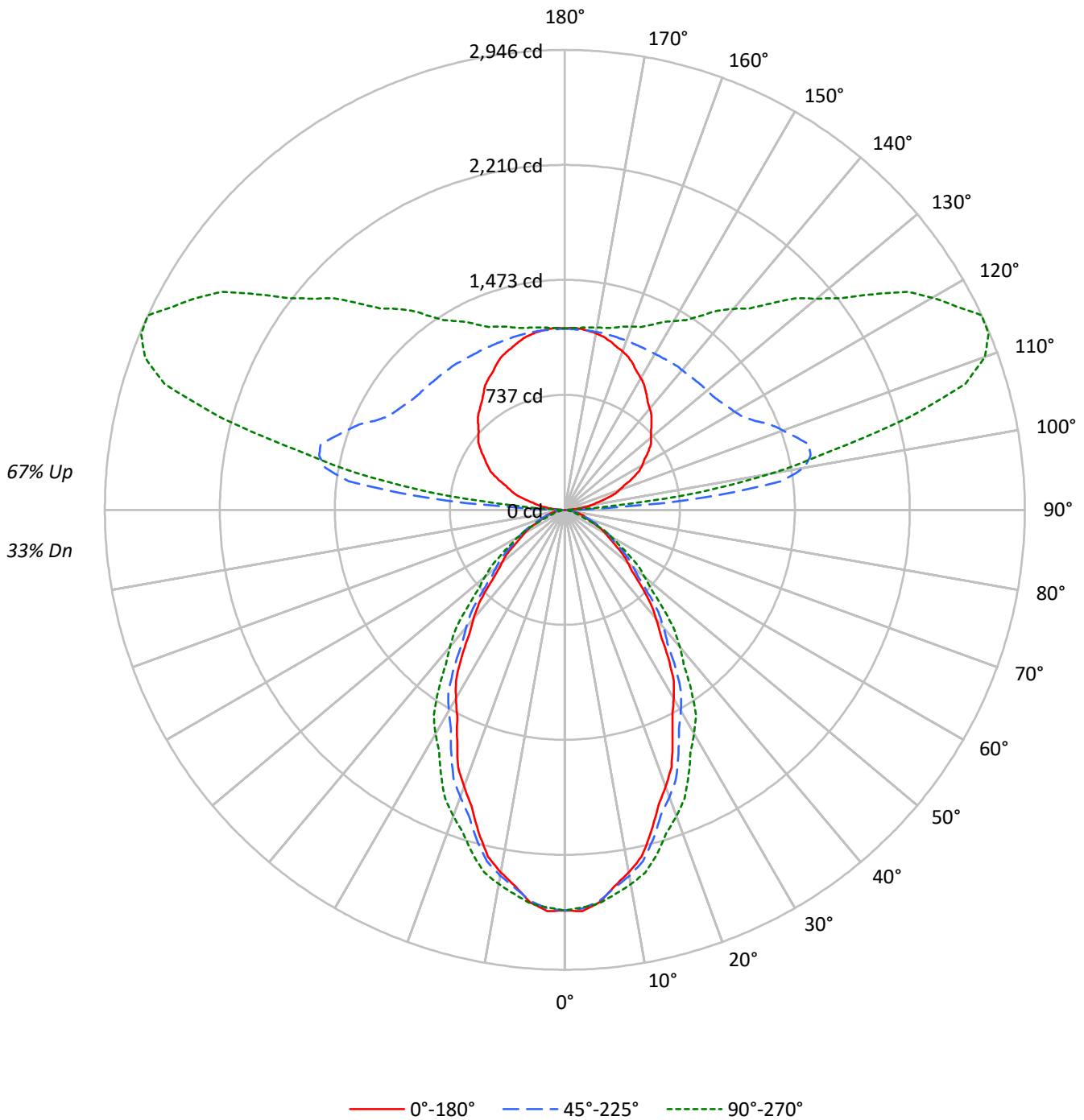
Lumens per Lamp: N/A
Luminaire Lumens: 11241.8 lumens
Efficiency: N/A
Efficacy: 127.9 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 87.9
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	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°	15787	15787	15787
5°	15590	15535	15625
10°	14729	14863	15208
15°	13597	13913	14537
20°	12348	12812	13660
25°	11075	11679	12726
30°	9903	10551	11759
35°	8660	9285	10613
40°	7288	7867	9187
45°	6015	6534	7670
50°	5022	5474	6391
55°	4264	4698	5278
60°	3644	4073	4212
65°	2901	3426	2722
70°	2572	2674	1662
75°	2381	2167	1017
80°	2193	1994	878
85°	1990	1828	713



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.4	2.1
10°-20°	612.3	5.4
20°-30°	793.2	7.1
30°-40°	776.7	6.9
40°-50°	594.5	5.3
50°-60°	396.2	3.5
60°-70°	216.2	1.9
70°-80°	90.1	0.8
80°-90°	28.2	0.3
90°-100°	543.4	4.8
100°-110°	1463.8	13.0
110°-120°	1536.2	13.7
120°-130°	1246.6	11.1
130°-140°	977.7	8.7
140°-150°	750.6	6.7
150°-160°	539.7	4.8
160°-170°	329.7	2.9
170°-180°	111.2	1.0
0°-30°	1640.9	14.6
0°-40°	2417.7	21.5
0°-60°	3408.4	30.3
0°-90°	3742.8	33.3
90°-120°	3543.5	31.5
90°-150°	6518.4	58.0
90°-180°	7499.0	66.7
0°-180°	11241.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2567	2567	2567	2567	2567	
5°	2525	2500	2516	2522	2531	235
15°	2135	2128	2185	2244	2283	596
25°	1632	1636	1721	1796	1875	750
35°	1153	1159	1237	1320	1413	717
45°	692	705	751	808	882	539
55°	398	414	438	455	492	360
65°	199	216	235	206	187	207
75°	100	100	91	63	43	107
85°	28	28	26	17	10	31
90°	3	9	18	19	19	7
95°	83	296	891	456	315	87
105°	271	421	1619	2422	2273	285
115°	478	585	1348	2605	2946	470
125°	653	750	1210	2046	2408	583
135°	786	877	1176	1650	1869	607
145°	909	980	1162	1411	1515	570
155°	1031	1069	1151	1266	1307	475
165°	1119	1132	1156	1202	1208	315
175°	1163	1162	1157	1173	1170	110
180°	1162	1162	1162	1162	1162	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2566.7	2566.7	2566.7	2566.7	2566.7
2.5°	2573.0	2550.1	2555.9	2555.7	2548.7
5°	2525.0	2499.7	2516.0	2521.8	2530.6
7.5°	2431.3	2412.1	2441.9	2463.9	2481.8
10°	2358.3	2341.8	2379.7	2411.8	2434.9
12.5°	2273.6	2259.8	2306.7	2349.8	2379.9
15°	2135.3	2127.6	2184.9	2244.3	2282.9
17.5°	1987.3	1983.6	2049.3	2118.7	2168.0
20°	1886.4	1885.3	1957.4	2029.6	2086.9
22.5°	1784.6	1787.0	1862.8	1937.9	2003.1
25°	1631.9	1636.3	1720.9	1795.9	1875.2
27.5°	1490.7	1492.7	1580.1	1659.3	1743.9
30°	1394.3	1399.8	1485.5	1567.5	1655.6
32.5°	1297.9	1304.3	1388.2	1472.9	1562.8
35°	1153.3	1158.8	1236.6	1319.8	1413.4
37.5°	1004.1	1011.6	1080.7	1159.4	1251.5
40°	907.7	918.8	979.8	1053.9	1144.2
42.5°	814.9	828.6	885.2	955.5	1037.0
45°	691.5	704.7	751.2	808.1	881.8
47.5°	585.2	600.4	636.1	685.1	748.0
50°	524.8	539.1	572.1	608.4	667.9
52.5°	471.7	486.0	515.4	543.3	594.0
55°	397.6	414.1	438.1	454.7	492.2
57.5°	336.7	352.6	371.7	379.2	401.8
60°	296.2	313.8	331.1	330.3	342.4
62.5°	259.3	274.2	291.5	279.5	280.2
65°	199.3	215.9	235.4	205.7	187.0
67.5°	161.1	164.6	184.7	143.4	121.2
70°	143.0	143.0	148.7	111.1	92.4
72.5°	125.9	125.9	120.7	90.3	70.7
75°	100.2	100.2	91.2	62.6	42.8
77.5°	77.3	76.4	69.8	46.7	31.1
80°	61.9	61.9	56.3	36.9	24.8
82.5°	48.4	48.4	43.7	28.8	18.5
85°	28.2	28.2	25.9	16.7	10.1
87.5°	10.5	11.7	12.6	9.2	8.4
90°	3.0	8.7	17.8	19.2	19.2
92.5°	36.1	127.6	252.2	121.4	84.3
95°	82.9	295.6	890.8	455.5	315.2
97.5°	132.3	338.3	1397.2	1167.2	880.2
100°	170.2	355.4	1558.2	1630.3	1352.5
102.5°	206.9	379.3	1611.5	1977.1	1749.1
105°	270.8	421.3	1618.9	2422.0	2272.9
107.5°	331.2	465.4	1549.9	2650.6	2689.1
110°	371.4	498.8	1487.2	2721.5	2861.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	414.0	532.1	1426.8	2705.8	2936.5
115°	478.0	585.0	1348.1	2604.8	2946.2
117.5°	536.3	636.7	1287.1	2443.5	2823.7
120°	574.2	671.1	1256.3	2327.7	2718.4
122.5°	607.3	703.1	1233.8	2209.3	2598.8
125°	652.6	749.5	1210.5	2045.9	2407.6
127.5°	696.1	791.6	1195.7	1901.8	2224.7
130°	722.1	817.6	1189.7	1819.2	2102.8
132.5°	748.2	842.5	1183.8	1746.4	2006.9
135°	785.8	876.9	1176.4	1650.5	1869.0
137.5°	821.6	909.0	1172.6	1569.1	1748.5
140°	846.4	930.4	1169.0	1519.0	1681.0
142.5°	872.5	950.6	1166.7	1472.2	1608.8
145°	908.6	979.5	1161.6	1411.1	1515.3
147.5°	947.7	1009.3	1156.6	1359.7	1441.6
150°	973.7	1027.2	1154.2	1327.4	1395.4
152.5°	997.4	1044.0	1153.0	1301.1	1356.4
155°	1031.4	1069.0	1151.3	1266.1	1306.6
157.5°	1061.3	1090.5	1151.6	1241.6	1268.8
160°	1080.2	1104.8	1152.7	1227.2	1247.5
162.5°	1096.8	1116.8	1153.9	1215.2	1229.7
165°	1118.7	1131.7	1155.7	1201.7	1207.5
167.5°	1136.5	1144.0	1157.2	1191.3	1193.6
170°	1148.3	1151.2	1157.2	1185.3	1185.3
172.5°	1155.4	1156.0	1158.4	1179.4	1179.4
175°	1163.1	1161.7	1157.2	1173.4	1170.5
177.5°	1166.4	1164.0	1158.1	1167.5	1165.2
180°	1161.6	1161.6	1161.6	1161.6	1161.6

(END OF REPORT)