

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: P519202

Luminaire Tested: **SQ4-WB-075U-075D-930-1D-UNV-STD-W-8**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519202
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-075U-075D-930-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

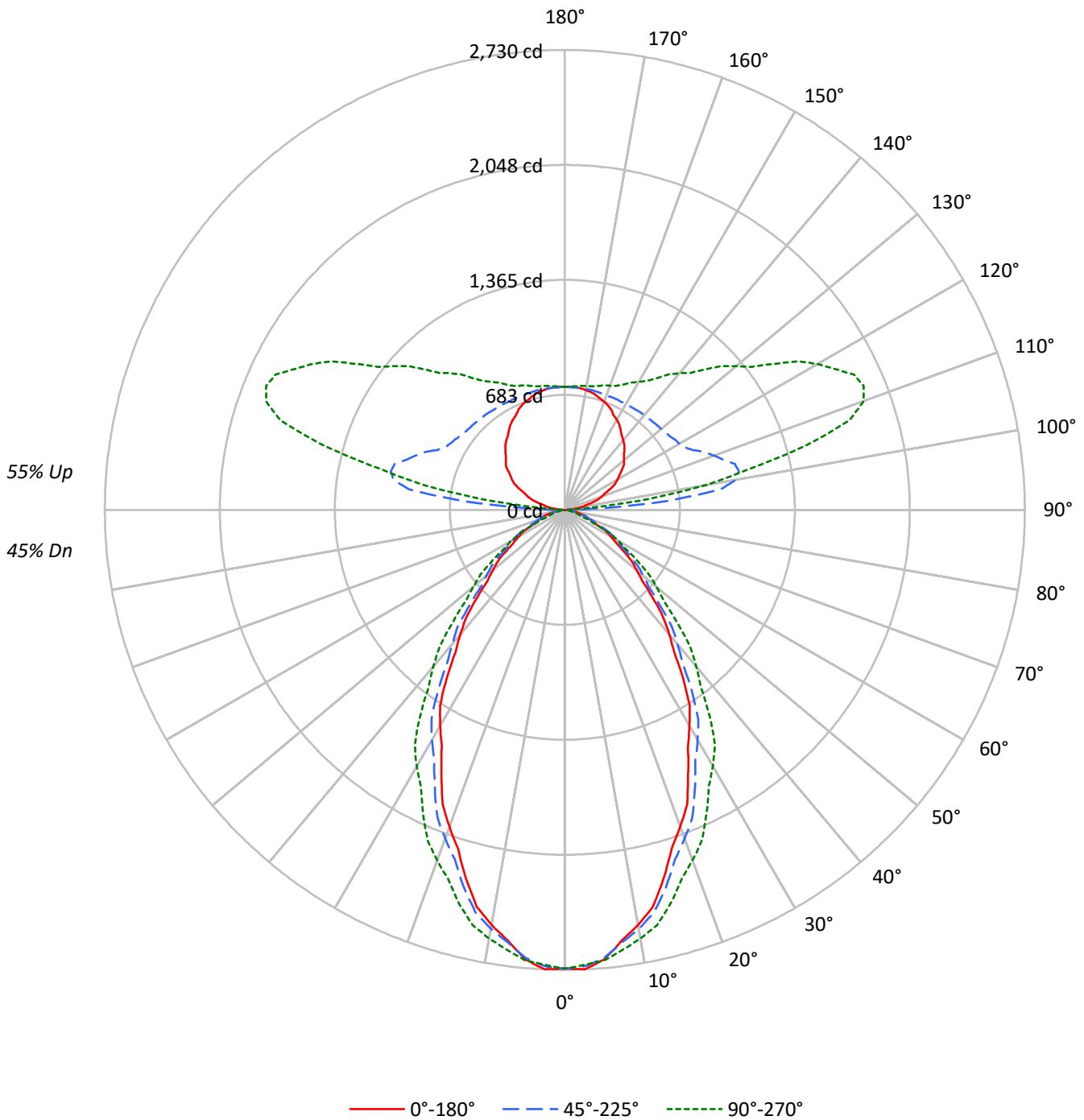
Lumens per Lamp: N/A
Luminaire Lumens: 8734.7 lumens
Efficiency: N/A
Efficacy: 96.0 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 91
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	106	106	106	106	97	97	97	97	81	81	81	66	66	66	52	52	52	45
1	98	94	90	87	90	86	83	81	72	70	68	59	58	57	47	47	46	40
2	90	83	78	73	82	77	72	68	65	61	58	53	51	49	43	42	40	36
3	83	74	67	62	76	69	63	58	58	54	50	48	45	43	39	37	36	31
4	76	66	59	54	70	61	55	50	52	48	44	44	40	38	36	34	32	28
5	70	60	52	47	65	55	49	44	47	42	39	40	36	33	33	30	28	25
6	65	54	47	41	60	50	44	39	43	38	34	36	33	30	30	28	26	23
7	61	49	42	37	56	46	39	35	39	34	31	34	30	27	28	25	23	21
8	56	45	38	33	52	42	36	31	36	31	28	31	27	24	26	23	21	19
9	53	41	34	29	49	39	32	28	34	29	25	29	25	22	24	21	19	17
10	49	38	31	27	46	36	30	25	31	26	23	27	23	20	23	20	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12563	12563	12563
5°	12406	12362	12433
10°	11721	11827	12101
15°	10820	11071	11568
20°	9826	10195	10870
25°	8813	9294	10127
30°	7880	8395	9357
35°	6891	7389	8445
40°	5800	6260	7311
45°	4787	5200	6104
50°	3996	4356	5085
55°	3392	3738	4200
60°	2900	3241	3352
65°	2309	2726	2166
70°	2047	2127	1322
75°	1895	1725	809
80°	1745	1586	699
85°	1583	1456	572



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.8	2.9
10°-20°	649.7	7.4
20°-30°	841.6	9.6
30°-40°	824.1	9.4
40°-50°	630.8	7.2
50°-60°	420.3	4.8
60°-70°	229.4	2.6
70°-80°	95.6	1.1
80°-90°	28.9	0.3
90°-100°	344.9	3.9
100°-110°	949.1	10.9
110°-120°	979.6	11.2
120°-130°	784.8	9.0
130°-140°	616.4	7.1
140°-150°	472.4	5.4
150°-160°	339.7	3.9
160°-170°	207.7	2.4
170°-180°	70.0	0.8
0°-30°	1741.0	19.9
0°-40°	2565.1	29.4
0°-60°	3616.3	41.4
0°-90°	3970.1	45.5
90°-120°	2273.6	26.0
90°-150°	4147.3	47.5
90°-180°	4765.0	54.6
0°-180°	8734.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2723	2723	2723	2723	2723	
5°	2679	2652	2670	2676	2685	249
15°	2266	2257	2318	2381	2422	633
25°	1732	1736	1826	1905	1990	796
35°	1224	1230	1312	1400	1500	761
45°	734	748	797	857	936	572
55°	422	439	465	482	522	382
65°	212	229	250	218	198	220
75°	106	106	97	66	45	114
85°	30	30	28	18	11	33
90°	2	6	11	14	14	5
95°	51	188	610	261	166	54
105°	170	261	1046	1593	1486	179
115°	300	366	839	1670	1895	296
125°	414	472	761	1287	1508	369
135°	500	554	739	1041	1178	385
145°	577	617	728	887	956	362
155°	654	675	724	797	820	300
165°	706	716	727	756	761	199
175°	731	733	728	738	736	69
180°	731	731	731	731	731	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2723.3	2723.3	2723.3	2723.3	2723.3
2.5°	2729.9	2705.6	2711.8	2711.6	2704.1
5°	2679.0	2652.2	2669.5	2675.7	2685.0
7.5°	2579.6	2559.3	2590.9	2614.2	2633.2
10°	2502.2	2484.7	2524.9	2558.9	2583.4
12.5°	2412.3	2397.6	2447.5	2493.1	2525.1
15°	2265.6	2257.4	2318.2	2381.2	2422.1
17.5°	2108.6	2104.6	2174.3	2247.9	2300.2
20°	2001.5	2000.3	2076.8	2153.5	2214.2
22.5°	1893.5	1896.1	1976.4	2056.1	2125.3
25°	1731.5	1736.1	1825.9	1905.4	1989.6
27.5°	1581.6	1583.7	1676.5	1760.5	1850.2
30°	1479.3	1485.2	1576.1	1663.1	1756.6
32.5°	1377.0	1383.8	1472.9	1562.8	1658.1
35°	1223.6	1229.5	1312.0	1400.3	1499.6
37.5°	1065.4	1073.3	1146.7	1230.1	1327.8
40°	963.1	974.8	1039.6	1118.2	1214.1
42.5°	864.7	879.1	939.2	1013.8	1100.3
45°	733.7	747.7	797.0	857.4	935.6
47.5°	620.9	637.0	674.9	726.8	793.7
50°	556.8	572.0	607.0	645.5	708.6
52.5°	500.4	515.6	546.8	576.5	630.2
55°	421.8	439.3	464.8	482.5	522.2
57.5°	357.3	374.1	394.3	402.3	426.4
60°	314.3	333.0	351.3	350.4	363.3
62.5°	275.1	291.0	309.2	296.6	297.3
65°	211.5	229.0	249.7	218.2	198.4
67.5°	170.9	174.6	196.0	152.2	128.6
70°	151.8	151.8	157.7	117.8	98.0
72.5°	133.6	133.6	128.1	95.8	75.0
75°	106.3	106.3	96.8	66.4	45.4
77.5°	82.0	81.0	74.1	49.6	33.0
80°	65.7	65.7	59.7	39.1	26.3
82.5°	51.4	51.4	46.4	30.6	19.6
85°	29.9	29.9	27.5	17.8	10.8
87.5°	10.8	11.7	11.7	8.5	7.6
90°	1.6	6.1	10.9	14.0	14.0
92.5°	21.5	91.8	159.0	61.1	50.1
95°	51.4	188.3	610.0	260.8	166.5
97.5°	83.7	208.8	930.9	717.2	506.1
100°	107.4	221.5	1031.7	1041.4	849.6
102.5°	129.8	236.6	1057.9	1291.9	1116.1
105°	169.6	260.9	1045.7	1592.6	1486.1
107.5°	207.6	291.0	986.3	1739.8	1771.5
110°	235.0	311.1	941.5	1776.5	1886.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	259.9	333.5	896.6	1752.9	1919.6
115°	300.3	365.8	838.8	1670.2	1895.4
117.5°	338.9	399.2	802.0	1554.1	1808.8
120°	362.6	420.4	785.8	1467.2	1730.4
122.5°	383.7	441.6	774.6	1390.9	1640.8
125°	413.9	471.7	760.9	1287.3	1507.9
127.5°	442.6	497.6	751.9	1200.7	1394.3
130°	457.5	513.8	746.9	1149.3	1325.8
132.5°	474.9	531.2	743.2	1104.1	1263.6
135°	499.5	554.3	739.2	1041.0	1178.0
137.5°	522.5	573.4	735.7	990.1	1103.0
140°	540.0	587.1	734.5	956.2	1058.2
142.5°	554.9	598.4	732.0	926.0	1013.3
145°	577.3	616.9	728.3	887.0	955.5
147.5°	601.3	635.4	726.4	852.4	907.2
150°	616.2	646.7	725.2	833.5	876.1
152.5°	629.9	657.9	723.9	817.1	852.4
155°	653.6	674.9	723.6	797.3	820.1
157.5°	670.7	688.0	723.6	780.9	796.7
160°	683.1	696.8	723.6	772.1	784.3
162.5°	693.1	704.4	724.8	764.6	774.3
165°	706.5	715.6	726.7	756.4	760.9
167.5°	715.8	722.8	728.3	749.5	750.7
170°	722.0	726.6	728.3	746.9	746.9
172.5°	727.0	729.2	728.3	743.2	742.0
175°	731.4	732.9	728.3	737.6	736.0
177.5°	732.6	732.6	727.6	735.1	732.6
180°	731.4	731.4	731.4	731.4	731.4

(END OF REPORT)