

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: P519233

Luminaire Tested: **SQ4-WB-075U-100D-940-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519233
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-100D-940-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

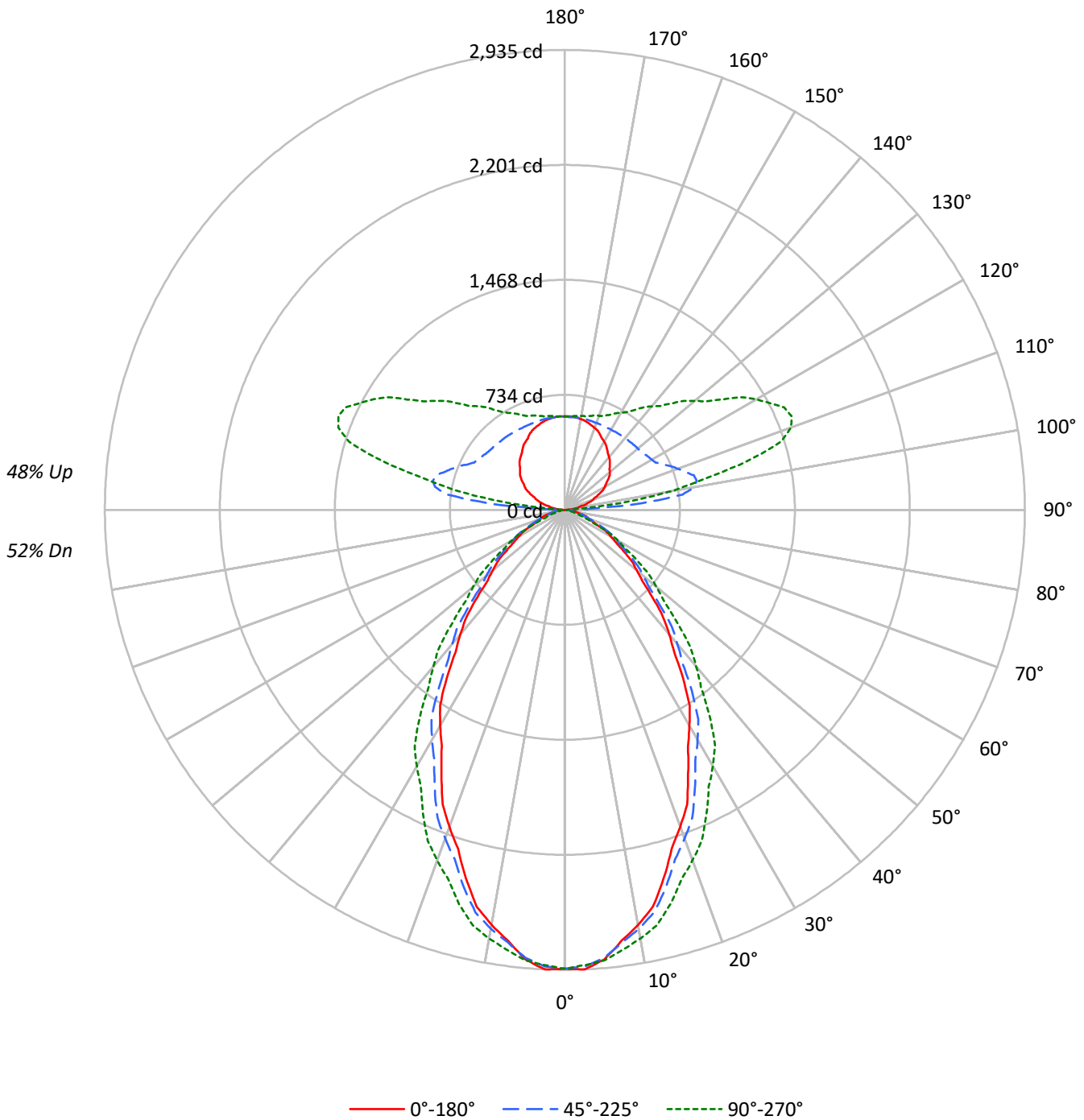
Lumens per Lamp: N/A
Luminaire Lumens: 8150.3 lumens
Efficiency: N/A
Efficacy: 98.3 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 82.9
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	108	108	108	108	100	100	100	100	85	85	85	71	71	71	58	58	58	52
1	99	96	92	89	92	89	86	83	76	74	72	64	63	61	53	52	52	46
2	92	85	79	75	85	79	74	70	68	65	62	58	55	53	48	47	45	41
3	84	76	69	64	78	71	65	60	61	57	53	52	49	47	44	42	40	36
4	78	68	61	55	72	64	57	52	55	50	47	48	44	41	40	38	36	32
5	72	61	54	48	67	57	51	46	50	45	41	43	40	37	37	34	32	29
6	67	56	48	43	62	52	45	41	46	41	37	40	36	33	34	31	29	26
7	62	51	43	38	58	48	41	36	42	37	33	37	33	30	32	29	26	24
8	58	46	39	34	54	44	37	33	39	33	30	34	30	27	29	26	24	22
9	54	43	36	31	51	40	34	30	36	31	27	31	27	24	27	24	22	20
10	51	39	33	28	47	37	31	27	33	28	25	29	25	22	26	23	20	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18010	18010	18010
5°	17785	17721	17825
10°	16803	16956	17349
15°	15512	15872	16584
20°	14086	14616	15583
25°	12635	13324	14518
30°	11297	12036	13414
35°	9879	10593	12107
40°	8314	8975	10481
45°	6862	7455	8751
50°	5729	6246	7291
55°	4863	5360	6021
60°	4157	4646	4805
65°	3310	3908	3104
70°	2935	3050	1895
75°	2716	2474	1160
80°	2504	2274	1002
85°	2265	2089	819



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	268.6	3.3
10°-20°	698.6	8.6
20°-30°	904.9	11.1
30°-40°	886.1	10.9
40°-50°	678.2	8.3
50°-60°	451.9	5.5
60°-70°	246.6	3.0
70°-80°	102.8	1.3
80°-90°	30.6	0.4
90°-100°	281.1	3.4
100°-110°	773.3	9.5
110°-120°	798.1	9.8
120°-130°	639.5	7.8
130°-140°	502.3	6.2
140°-150°	384.9	4.7
150°-160°	276.7	3.4
160°-170°	169.2	2.1
170°-180°	57.0	0.7
0°-30°	1872.0	23.0
0°-40°	2758.1	33.8
0°-60°	3888.2	47.7
0°-90°	4268.2	52.4
90°-120°	1852.5	22.7
90°-150°	3379.1	41.5
90°-180°	3882.0	47.6
0°-180°	8150.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2928	2928	2928	2928	2928	
5°	2880	2852	2870	2877	2887	268
15°	2436	2427	2492	2560	2604	680
25°	1862	1867	1963	2049	2139	856
35°	1316	1322	1411	1506	1612	818
45°	789	804	857	922	1006	615
55°	454	472	500	519	562	411
65°	227	246	268	235	213	236
75°	114	114	104	71	49	122
85°	32	32	30	19	12	35
90°	1	5	9	11	11	4
95°	42	153	497	212	136	44
105°	138	213	852	1298	1211	146
115°	245	298	683	1361	1544	241
125°	337	384	620	1049	1229	301
135°	407	452	602	848	960	314
145°	470	503	593	723	778	295
155°	532	550	590	650	668	245
165°	576	583	592	616	620	162
175°	596	597	593	601	600	57
180°	596	596	596	596	596	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2928.1	2928.1	2928.1	2928.1	2928.1
2.5°	2935.3	2909.1	2915.7	2915.5	2907.5
5°	2880.5	2851.6	2870.2	2876.9	2886.9
7.5°	2773.6	2751.8	2785.7	2810.8	2831.2
10°	2690.4	2671.5	2714.8	2751.4	2777.7
12.5°	2593.8	2577.9	2631.5	2680.6	2715.0
15°	2436.0	2427.2	2492.5	2560.3	2604.3
17.5°	2267.2	2262.9	2337.8	2417.0	2473.2
20°	2152.0	2150.8	2233.0	2315.4	2380.7
22.5°	2035.9	2038.7	2125.1	2210.8	2285.1
25°	1861.7	1866.7	1963.2	2048.7	2139.2
27.5°	1700.6	1702.8	1802.6	1892.9	1989.4
30°	1590.6	1596.9	1694.7	1788.2	1888.7
32.5°	1480.6	1487.9	1583.6	1680.3	1782.8
35°	1315.6	1321.9	1410.7	1505.6	1612.4
37.5°	1145.5	1154.1	1232.9	1322.6	1427.7
40°	1035.5	1048.1	1117.8	1202.3	1305.4
42.5°	929.7	945.3	1009.9	1090.1	1183.0
45°	788.9	803.9	857.0	921.8	1006.0
47.5°	667.6	684.9	725.7	781.5	853.4
50°	598.7	615.0	652.7	694.0	761.9
52.5°	538.1	554.4	587.9	619.8	677.6
55°	453.5	472.4	499.8	518.7	561.5
57.5°	384.2	402.2	424.0	432.5	458.4
60°	337.9	358.0	377.7	376.8	390.6
62.5°	295.8	312.8	332.5	318.9	319.7
65°	227.4	246.3	268.5	234.6	213.3
67.5°	183.7	187.7	210.7	163.6	138.2
70°	163.2	163.2	169.6	126.7	105.4
72.5°	143.6	143.6	137.7	103.0	80.7
75°	114.3	114.3	104.1	71.4	48.8
77.5°	88.1	87.1	79.7	53.3	35.5
80°	70.7	70.7	64.2	42.1	28.3
82.5°	55.2	55.2	49.9	32.9	21.1
85°	32.1	32.1	29.6	19.1	11.6
87.5°	11.6	12.3	12.1	8.4	7.4
90°	1.3	5.0	8.9	11.4	11.4
92.5°	17.5	74.8	129.6	49.8	40.8
95°	41.8	153.4	497.0	212.5	135.7
97.5°	68.2	170.1	758.5	584.4	412.3
100°	87.5	180.5	840.6	848.5	692.3
102.5°	105.7	192.8	861.9	1052.6	909.3
105°	138.2	212.6	852.0	1297.6	1210.8
107.5°	169.1	237.1	803.6	1417.6	1443.4
110°	191.5	253.4	767.1	1447.4	1536.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	211.7	271.7	730.6	1428.2	1564.1
115°	244.7	298.0	683.4	1360.8	1544.3
117.5°	276.1	325.2	653.5	1266.3	1473.8
120°	295.4	342.5	640.3	1195.4	1409.9
122.5°	312.7	359.8	631.2	1133.3	1336.9
125°	337.3	384.4	620.0	1048.8	1228.6
127.5°	360.6	405.5	612.6	978.3	1136.0
130°	372.8	418.6	608.6	936.4	1080.2
132.5°	387.0	432.8	605.5	899.6	1029.5
135°	407.0	451.6	602.2	848.2	959.8
137.5°	425.8	467.2	599.5	806.7	898.7
140°	440.0	478.4	598.4	779.1	862.2
142.5°	452.1	487.6	596.4	754.5	825.6
145°	470.4	502.6	593.4	722.7	778.5
147.5°	489.9	517.7	591.9	694.5	739.2
150°	502.1	526.9	590.8	679.1	713.8
152.5°	513.2	536.1	589.8	665.8	694.5
155°	532.5	549.9	589.6	649.6	668.2
157.5°	546.5	560.6	589.6	636.3	649.2
160°	556.6	567.8	589.6	629.1	639.0
162.5°	564.7	573.9	590.6	623.0	630.9
165°	575.6	583.1	592.1	616.3	620.0
167.5°	583.2	588.9	593.4	610.6	611.6
170°	588.3	592.0	593.4	608.6	608.6
172.5°	592.4	594.1	593.4	605.5	604.5
175°	595.9	597.1	593.4	601.0	599.7
177.5°	596.9	596.9	592.9	598.9	596.9
180°	595.9	595.9	595.9	595.9	595.9

(END OF REPORT)