

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: P519240

Luminaire Tested: **SQ4-WB-075U-125D-835-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519240
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-125D-835-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

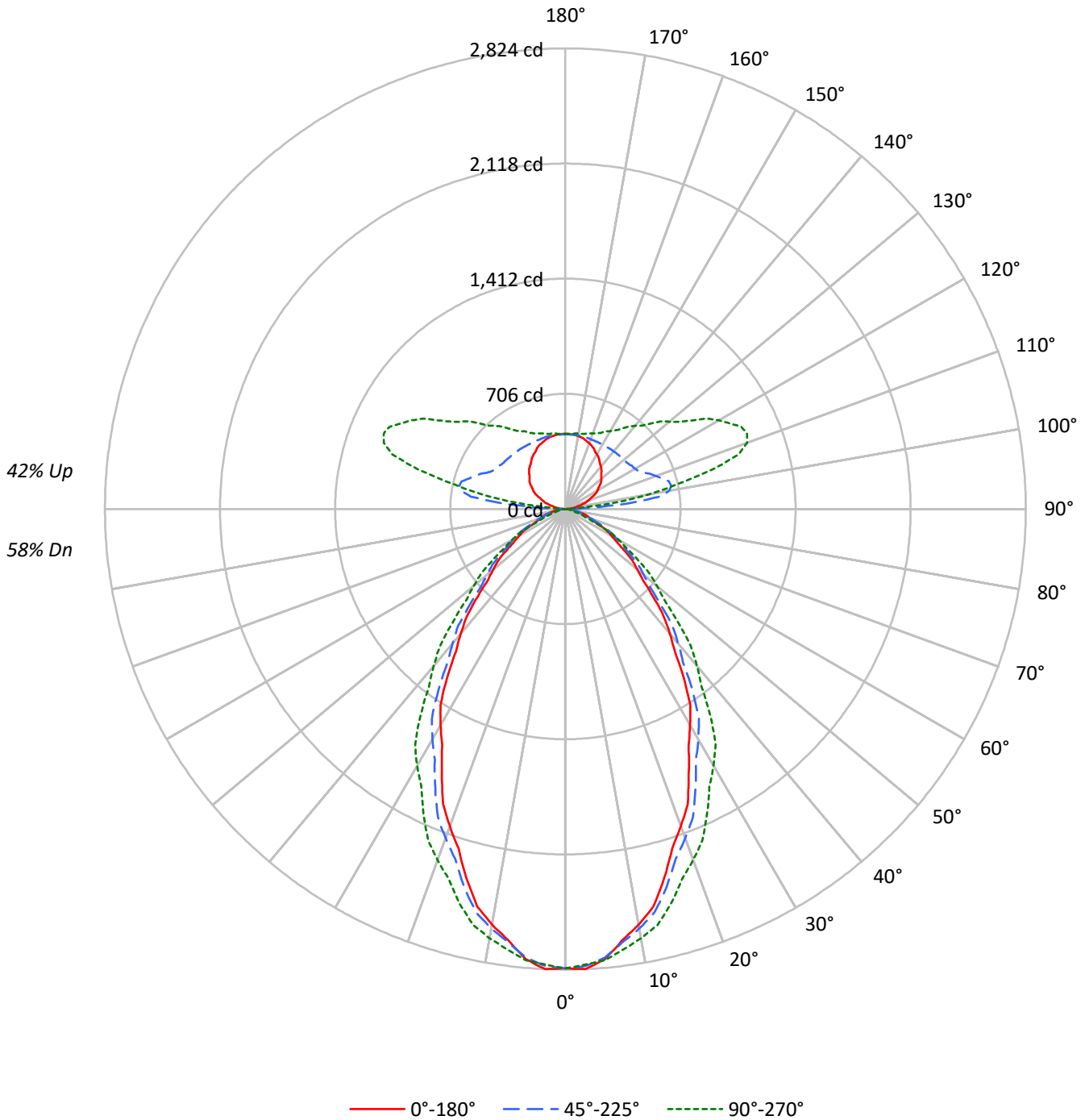
Lumens per Lamp: N/A
Luminaire Lumens: 7099.9 lumens
Efficiency: N/A
Efficacy: 114.3 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 62.1
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	109	109	109	109	102	102	102	102	88	88	88	75	75	75	63	63	63	58
1	101	97	94	90	94	91	88	85	79	77	75	68	66	65	58	57	56	51
2	93	86	81	76	87	81	76	72	71	67	64	61	59	57	53	51	49	45
3	86	77	70	65	80	72	67	62	64	59	56	56	52	50	48	46	44	40
4	79	69	62	57	74	65	59	54	58	53	49	51	47	44	44	41	39	36
5	73	63	55	50	68	59	52	47	52	47	43	46	42	39	40	37	35	32
6	68	57	49	44	64	54	47	42	48	42	38	42	38	35	37	34	31	29
7	63	52	44	39	59	49	42	38	44	39	35	39	35	32	34	31	29	26
8	59	48	40	35	55	45	39	34	40	35	31	36	32	29	32	29	26	24
9	55	44	37	32	52	42	35	31	37	32	29	34	29	26	30	26	24	22
10	52	41	34	29	49	39	32	28	35	30	26	31	27	24	28	25	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	25990	25990	25990
5°	25666	25575	25724
10°	24250	24470	25036
15°	22385	22905	23933
20°	20328	21093	22489
25°	18233	19227	20951
30°	16303	17369	19358
35°	14257	15286	17472
40°	11999	12952	15126
45°	9903	10758	12629
50°	8268	9013	10521
55°	7018	7734	8689
60°	5999	6706	6934
65°	4777	5639	4480
70°	4235	4402	2735
75°	3921	3568	1675
80°	3613	3284	1445
85°	3271	3006	1175



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	258.4	3.6
10°-20°	672.1	9.5
20°-30°	870.5	12.3
30°-40°	852.5	12.0
40°-50°	652.5	9.2
50°-60°	434.8	6.1
60°-70°	237.3	3.3
70°-80°	98.9	1.4
80°-90°	29.2	0.4
90°-100°	216.8	3.1
100°-110°	596.3	8.4
110°-120°	615.5	8.7
120°-130°	493.1	6.9
130°-140°	387.3	5.5
140°-150°	296.8	4.2
150°-160°	213.4	3.0
160°-170°	130.5	1.8
170°-180°	44.0	0.6
0°-30°	1801.0	25.4
0°-40°	2653.5	37.4
0°-60°	3740.8	52.7
0°-90°	4106.1	57.8
90°-120°	1428.6	20.1
90°-150°	2605.9	36.7
90°-180°	2994.0	42.2
0°-180°	7099.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2817	2817	2817	2817	2817	
5°	2771	2744	2761	2768	2778	258
15°	2344	2335	2398	2463	2506	654
25°	1791	1796	1889	1971	2058	824
35°	1266	1272	1357	1449	1551	787
45°	759	774	824	887	968	592
55°	436	454	481	499	540	396
65°	219	237	258	226	205	227
75°	110	110	100	69	47	117
85°	31	31	28	18	11	34
90°	1	4	7	9	9	4
95°	32	118	383	164	105	34
105°	107	164	657	1001	934	112
115°	189	230	527	1049	1191	186
125°	260	296	478	809	948	232
135°	314	348	464	654	740	242
145°	363	388	458	557	600	227
155°	411	424	455	501	515	189
165°	444	450	457	475	478	125
175°	460	460	458	463	462	44
180°	460	460	460	460	460	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2817.0	2817.0	2817.0	2817.0	2817.0
2.5°	2824.0	2798.8	2805.2	2805.0	2797.3
5°	2771.3	2743.5	2761.4	2767.8	2777.5
7.5°	2668.5	2647.4	2680.1	2704.3	2723.8
10°	2588.4	2570.2	2611.9	2647.0	2672.4
12.5°	2495.4	2480.2	2531.8	2579.0	2612.1
15°	2343.6	2335.2	2398.0	2463.3	2505.6
17.5°	2181.2	2177.1	2249.2	2325.3	2379.5
20°	2070.4	2069.2	2148.3	2227.6	2290.5
22.5°	1958.7	1961.4	2044.5	2127.0	2198.5
25°	1791.1	1795.9	1888.7	1971.1	2058.1
27.5°	1636.1	1638.3	1734.2	1821.1	1914.0
30°	1530.3	1536.3	1630.4	1720.4	1817.1
32.5°	1424.5	1431.5	1523.6	1616.6	1715.2
35°	1265.8	1271.8	1357.2	1448.6	1551.3
37.5°	1102.1	1110.3	1186.2	1272.5	1373.5
40°	996.3	1008.4	1075.4	1156.8	1255.9
42.5°	894.4	909.4	971.6	1048.8	1138.2
45°	759.0	773.5	824.5	886.9	967.9
47.5°	642.3	659.0	698.1	751.9	821.0
50°	576.0	591.7	627.9	667.7	733.0
52.5°	517.7	533.4	565.6	596.3	651.9
55°	436.3	454.5	480.8	499.1	540.2
57.5°	369.6	387.0	407.9	416.1	441.0
60°	325.1	344.4	363.4	362.5	375.8
62.5°	284.5	301.0	319.9	306.8	307.5
65°	218.8	236.9	258.3	225.7	205.2
67.5°	176.8	180.6	202.7	157.4	133.0
70°	157.0	157.0	163.2	121.9	101.4
72.5°	138.2	138.2	132.5	99.1	77.6
75°	110.0	110.0	100.1	68.7	47.0
77.5°	84.8	83.8	76.6	51.3	34.1
80°	68.0	68.0	61.8	40.5	27.2
82.5°	53.2	53.2	48.0	31.6	20.3
85°	30.9	30.9	28.4	18.4	11.1
87.5°	11.1	11.6	11.3	7.7	6.7
90°	1.0	3.8	6.8	8.8	8.8
92.5°	13.5	57.7	99.9	38.4	31.5
95°	32.3	118.3	383.3	163.9	104.6
97.5°	52.6	131.2	584.9	450.7	318.0
100°	67.5	139.2	648.3	654.3	533.9
102.5°	81.5	148.7	664.7	811.8	701.3
105°	106.6	163.9	657.1	1000.7	933.8
107.5°	130.4	182.8	619.7	1093.2	1113.1
110°	147.6	195.4	591.5	1116.2	1185.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	163.3	209.6	563.4	1101.4	1206.2
115°	188.7	229.8	527.0	1049.4	1190.9
117.5°	213.0	250.8	503.9	976.5	1136.6
120°	227.8	264.1	493.8	921.9	1087.3
122.5°	241.1	277.4	486.7	874.0	1031.0
125°	260.1	296.4	478.1	808.8	947.5
127.5°	278.1	312.7	472.5	754.5	876.1
130°	287.5	322.8	469.3	722.2	833.1
132.5°	298.4	333.8	467.0	693.8	793.9
135°	313.9	348.3	464.4	654.1	740.2
137.5°	328.3	360.3	462.3	622.1	693.0
140°	339.3	368.9	461.5	600.8	664.9
142.5°	348.7	376.0	459.9	581.8	636.7
145°	362.8	387.6	457.6	557.3	600.3
147.5°	377.8	399.2	456.4	535.6	570.0
150°	387.2	406.3	455.6	523.7	550.5
152.5°	395.8	413.4	454.9	513.4	535.6
155°	410.7	424.0	454.7	500.9	515.3
157.5°	421.4	432.3	454.7	490.7	500.6
160°	429.2	437.8	454.7	485.1	492.8
162.5°	435.5	442.6	455.4	480.4	486.5
165°	443.9	449.6	456.6	475.3	478.1
167.5°	449.8	454.2	457.6	470.9	471.7
170°	453.7	456.6	457.6	469.3	469.3
172.5°	456.8	458.2	457.6	467.0	466.2
175°	459.5	460.5	457.6	463.4	462.5
177.5°	460.3	460.3	457.2	461.9	460.3
180°	459.5	459.5	459.5	459.5	459.5

(END OF REPORT)