

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: P519144

Luminaire Tested: **SQ4-WB-050U-125D-835-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519144
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, 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-050U-125D-835-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

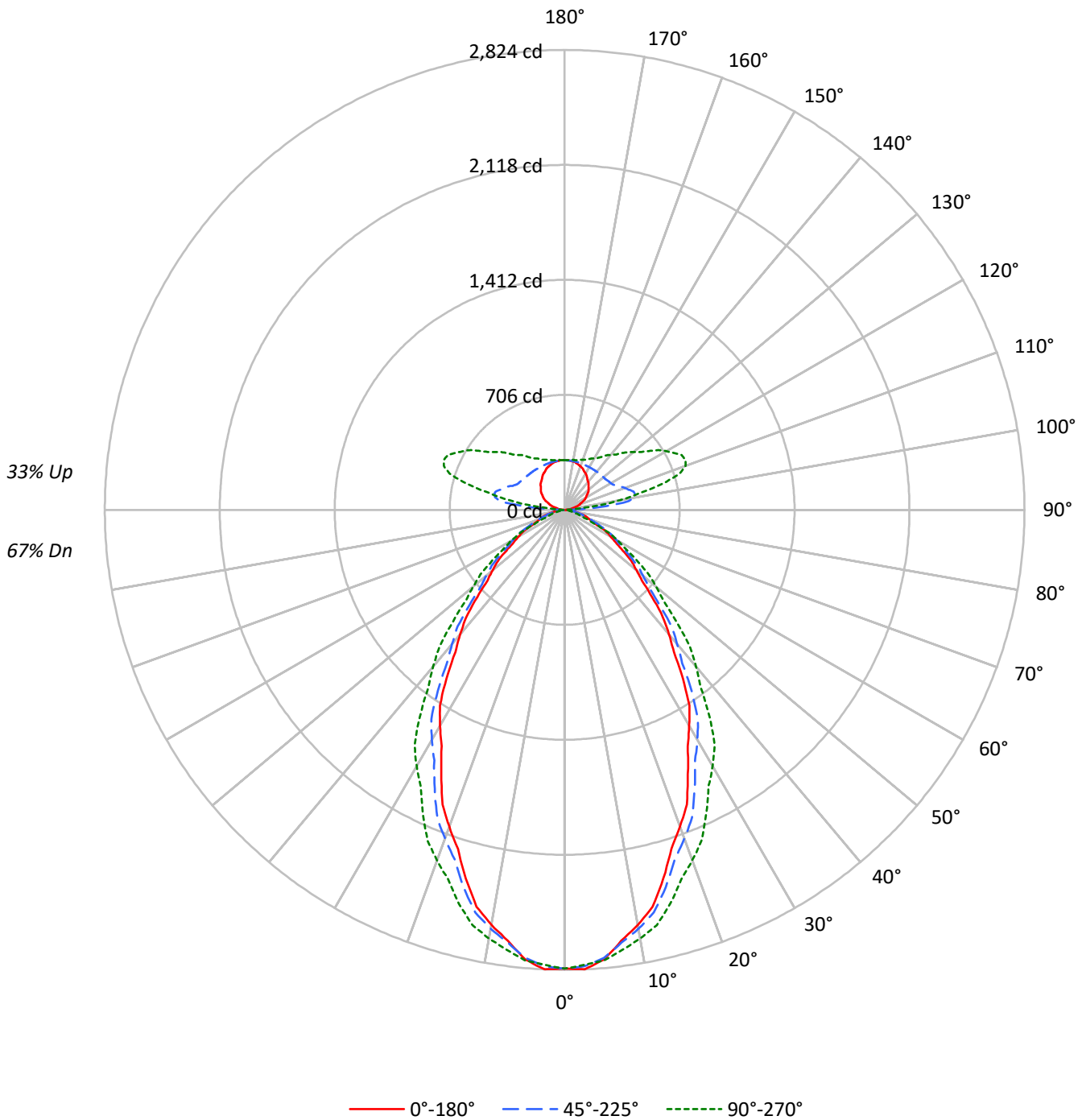
Lumens per Lamp: N/A
Luminaire Lumens: 6098.0 lumens
Efficiency: N/A
Efficacy: 109.1 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 55.9
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									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	50	30	10	50	30	10	50	30	10	0																
RCR	0	111	111	111	111	105	105	105	105	93	93	93	82	82	82	72	72	72	67	67	67	67	67	67	67	67	67	67	67	67																
	1	103	99	96	93	97	94	91	88	84	82	80	75	73	71	66	65	64	60	60	60	60	60	60	60	60	60	60	60	60																
	2	95	89	83	79	90	84	79	75	75	72	69	67	65	62	60	58	56	53	53	53	53	53	53	53	53	53	53	53	53																
	3	88	79	73	67	83	75	70	65	68	63	60	61	58	55	55	52	50	47	47	47	47	47	47	47	47	47	47	47	47																
	4	81	72	64	59	77	68	62	57	62	57	52	56	52	48	50	47	44	41	41	41	41	41	41	41	41	41	41	41	41																
	5	76	65	57	52	71	62	55	50	56	51	47	51	47	43	46	43	40	37	37	37	37	37	37	37	37	37	37	37	37																
	6	70	59	51	46	66	56	49	44	51	46	42	47	42	39	42	39	36	34	34	34	34	34	34	34	34	34	34	34	34																
	7	65	54	46	41	62	52	45	40	47	42	38	43	39	35	39	36	33	31	31	31	31	31	31	31	31	31	31	31	31																
	8	61	50	42	37	58	48	41	36	44	38	34	40	35	32	37	33	30	28	28	28	28	28	28	28	28	28	28	28	28																
	9	57	46	39	34	54	44	37	33	40	35	31	37	33	29	34	30	28	26	26	26	26	26	26	26	26	26	26	26	26																
	10	54	42	36	31	51	41	34	30	38	32	29	35	30	27	32	28	25	24	24	24	24	24	24	24	24	24	24	24	24																

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	4.2
10°-20°	672.1	11.0
20°-30°	870.5	14.3
30°-40°	852.5	14.0
40°-50°	652.5	10.7
50°-60°	434.8	7.1
60°-70°	237.3	3.9
70°-80°	98.9	1.6
80°-90°	29.2	0.5
90°-100°	146.4	2.4
100°-110°	397.8	6.5
110°-120°	409.0	6.7
120°-130°	327.0	5.4
130°-140°	257.0	4.2
140°-150°	197.0	3.2
150°-160°	141.7	2.3
160°-170°	86.7	1.4
170°-180°	29.2	0.5
0°-30°	1801.0	29.5
0°-40°	2653.5	43.5
0°-60°	3740.8	61.3
0°-90°	4106.1	67.3
90°-120°	953.3	15.6
90°-150°	1734.4	28.4
90°-180°	1992.0	32.7
0°-180°	6098.0	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	3
95°	22	80	255	111	75	23
105°	71	110	438	666	627	75
115°	126	152	350	697	794	124
125°	173	197	317	534	630	154
135°	208	231	308	435	490	161
145°	240	258	304	370	397	151
155°	272	281	302	332	341	125
165°	294	298	303	316	317	83
175°	305	306	304	308	307	29
180°	305	305	305	305	305	

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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	3.9	6.9	8.8	8.8
92.5°	8.8	40.1	69.6	29.9	25.3
95°	21.6	80.1	255.0	111.0	74.6
97.5°	35.7	88.5	391.0	304.2	213.7
100°	45.1	94.0	432.6	438.5	354.1
102.5°	54.5	99.6	443.6	542.3	467.9
105°	70.6	110.0	437.5	666.1	626.8
107.5°	87.3	122.0	412.2	730.1	741.0
110°	99.1	130.7	393.4	742.7	789.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	109.3	139.4	374.5	732.2	803.0
115°	125.6	152.4	350.2	696.7	793.6
117.5°	140.9	166.6	334.7	646.4	755.5
120°	151.1	176.0	327.6	612.6	721.0
122.5°	159.7	184.6	322.9	578.8	683.3
125°	172.6	196.6	316.8	533.9	629.8
127.5°	184.2	208.0	313.5	499.8	582.1
130°	191.3	214.3	311.9	478.4	552.3
132.5°	198.3	221.4	310.4	460.2	525.6
135°	208.0	231.0	308.0	434.8	490.5
137.5°	218.4	239.3	306.8	412.5	459.3
140°	224.6	244.8	306.1	398.2	440.4
142.5°	230.9	249.5	305.3	387.1	422.4
145°	240.3	257.6	304.1	369.5	397.3
147.5°	250.9	265.7	303.1	355.6	377.5
150°	258.0	270.5	303.1	347.6	364.9
152.5°	263.5	274.4	302.3	340.5	354.7
155°	271.7	281.3	302.1	331.8	341.4
157.5°	279.8	287.2	302.1	325.8	333.1
160°	284.5	291.2	302.1	321.9	327.6
162.5°	289.2	294.4	302.9	318.7	322.9
165°	294.3	298.1	303.1	315.9	316.8
167.5°	299.6	301.5	304.1	312.5	313.3
170°	301.2	303.1	304.1	311.0	311.0
172.5°	302.7	303.9	304.1	309.4	309.4
175°	305.1	306.0	304.1	308.0	307.0
177.5°	305.9	305.9	303.5	306.6	305.1
180°	305.1	305.1	305.1	305.1	305.1

(END OF REPORT)