

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: P564635

Luminaire Tested: **SQ4-PW1-050U-050D-935-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564635
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, G2-2106-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PW1-050U-050D-935-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

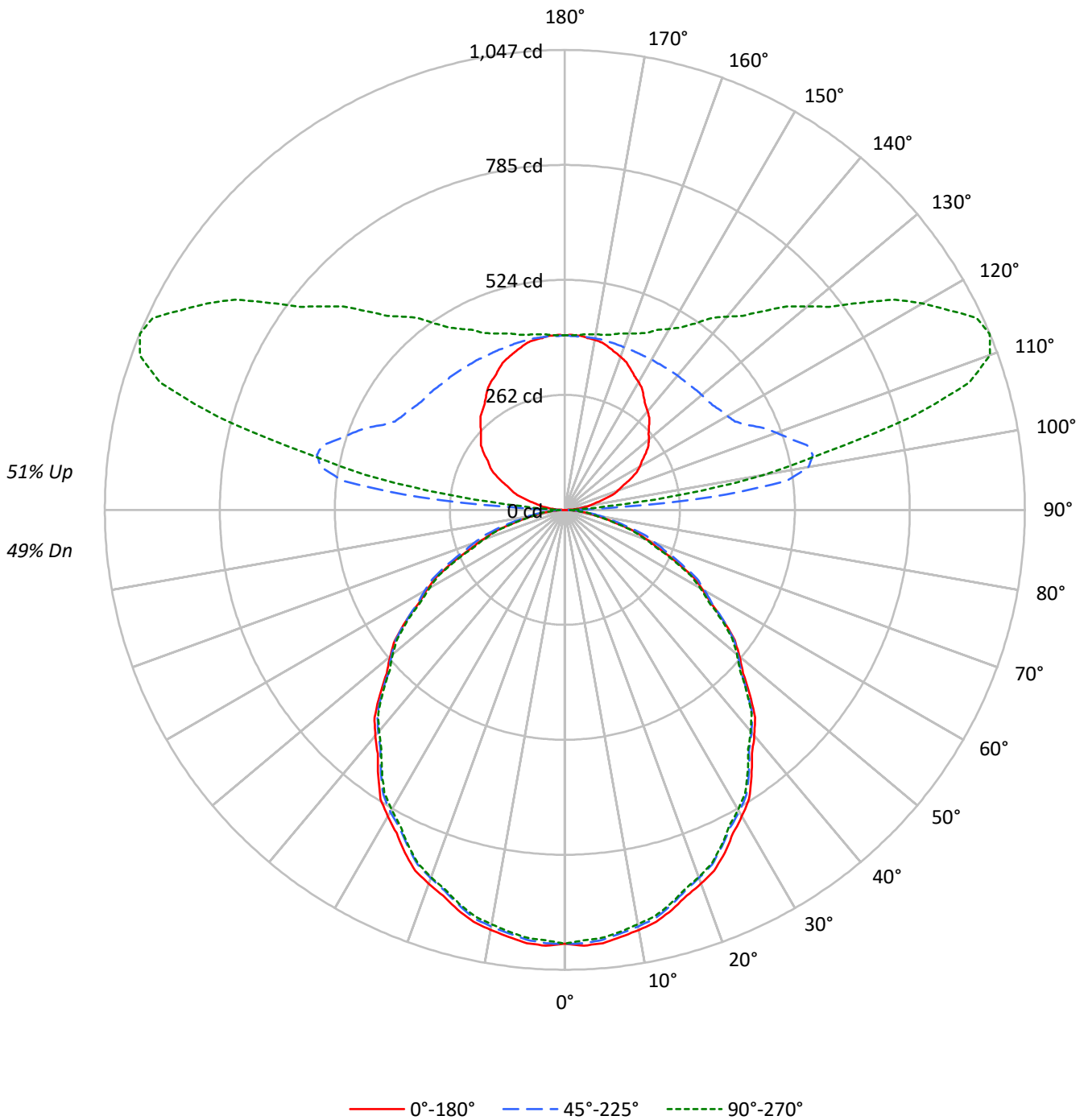
Lumens per Lamp: N/A
Luminaire Lumens: 5110.5 lumens
Efficiency: N/A
Efficacy: 114.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 44.8
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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	55	55	55	49
1	98	93	90	86	90	86	83	80	73	70	68	60	59	57	49	48	47	42
2	89	82	76	70	82	75	70	66	64	60	57	53	50	48	43	41	40	35
3	81	72	65	59	75	66	60	55	56	52	48	47	44	41	38	36	34	30
4	74	64	56	50	68	59	52	47	50	45	41	42	38	35	34	32	29	26
5	68	57	49	43	63	53	45	40	45	39	35	38	33	30	31	28	25	22
6	63	51	43	37	58	47	40	35	40	35	31	34	30	26	28	25	22	19
7	58	46	38	32	53	43	36	31	37	31	27	31	27	23	26	22	20	17
8	54	42	34	29	50	39	32	27	33	28	24	28	24	21	24	20	18	15
9	50	38	31	26	46	35	29	24	31	25	21	26	22	19	22	19	16	14
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6075	6075	6075
5°	6114	6066	6039
10°	6065	6016	5984
15°	6001	5935	5912
20°	5930	5839	5827
25°	5847	5740	5723
30°	5723	5636	5599
35°	5560	5482	5449
40°	5387	5303	5282
45°	5177	5110	5087
50°	4962	4921	4888
55°	4731	4731	4656
60°	4442	4528	4367
65°	4065	4269	3965
70°	3584	3928	3491
75°	3061	3515	2978
80°	2373	2958	2405
85°	1538	2272	2025



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.0	1.8
10°-20°	262.6	5.1
20°-30°	389.5	7.6
30°-40°	455.7	8.9
40°-50°	453.7	8.9
50°-60°	391.8	7.7
60°-70°	282.0	5.5
70°-80°	147.9	2.9
80°-90°	38.2	0.7
90°-100°	190.9	3.7
100°-110°	518.5	10.1
110°-120°	533.1	10.4
120°-130°	426.2	8.3
130°-140°	334.9	6.6
140°-150°	256.8	5.0
150°-160°	184.7	3.6
160°-170°	112.9	2.2
170°-180°	38.1	0.7
0°-30°	745.1	14.6
0°-40°	1200.8	23.5
0°-60°	2046.3	40.0
0°-90°	2514.4	49.2
90°-120°	1242.5	24.3
90°-150°	2260.4	44.2
90°-180°	2596.0	50.8
0°-180°	5110.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	988	988	988	988	988	
5°	990	979	982	980	978	94
15°	942	930	932	930	928	266
25°	862	847	846	841	843	396
35°	740	730	730	723	726	463
45°	595	590	587	586	585	459
55°	441	440	441	435	434	394
65°	279	288	293	282	272	277
75°	129	141	148	138	125	138
85°	22	29	32	30	29	29
90°	1	5	9	12	12	3
95°	28	104	332	145	97	30
105°	92	143	570	868	817	98
115°	164	199	456	908	1034	161
125°	225	256	413	696	821	201
135°	271	301	402	567	639	210
145°	313	336	396	482	518	197
155°	354	367	394	432	445	163
165°	384	389	395	412	413	108
175°	398	399	396	401	400	38
180°	398	398	398	398	398	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	987.7	987.7	987.7	987.7	987.7
2.5°	993.2	985.1	987.7	985.5	980.7
5°	990.3	979.2	982.5	979.8	978.1
7.5°	980.2	970.0	972.4	969.5	968.5
10°	971.1	960.9	963.3	959.8	958.1
12.5°	960.7	949.8	952.2	948.7	947.6
15°	942.4	930.5	932.0	930.2	928.5
17.5°	921.2	909.1	909.4	906.6	906.2
20°	905.9	893.1	892.0	888.5	890.2
22.5°	889.2	875.7	874.5	869.7	872.1
25°	861.5	847.0	845.8	840.7	843.2
27.5°	829.5	815.2	815.2	808.0	810.7
30°	805.8	792.2	793.6	785.0	788.4
32.5°	780.7	768.5	769.3	760.6	764.0
35°	740.5	730.3	730.1	723.2	725.7
37.5°	699.5	690.4	689.0	685.0	685.7
40°	670.9	663.3	660.5	657.9	657.9
42.5°	641.0	634.0	631.2	629.3	628.6
45°	595.2	590.1	587.4	585.6	584.8
47.5°	550.0	545.2	542.8	541.6	540.7
50°	518.6	515.2	514.3	511.7	510.8
52.5°	487.3	485.3	484.4	481.0	480.2
55°	441.2	440.3	441.2	435.1	434.2
57.5°	393.2	394.5	397.3	389.1	387.1
60°	361.1	364.5	368.1	358.4	355.0
62.5°	328.4	333.9	338.9	327.8	323.0
65°	279.3	287.8	293.3	281.7	272.4
67.5°	232.0	242.5	249.1	236.6	226.1
70°	199.3	211.2	218.4	206.0	194.1
72.5°	170.7	184.0	189.9	178.1	166.2
75°	128.8	140.7	147.9	138.1	125.3
77.5°	91.4	102.6	108.6	100.0	89.5
80°	67.0	78.9	83.5	76.4	67.9
82.5°	47.5	57.4	60.6	56.3	50.5
85°	21.8	28.6	32.2	30.4	28.7
87.5°	5.8	11.3	15.0	15.5	16.2
90°	1.3	5.0	8.9	11.5	11.5
92.5°	11.5	52.3	90.8	39.0	33.0
95°	28.1	104.4	332.4	144.7	97.2
97.5°	46.5	115.3	509.6	396.5	278.5
100°	58.8	122.6	563.8	571.5	461.5
102.5°	71.1	129.8	578.1	706.9	609.8
105°	92.1	143.3	570.2	868.2	817.0
107.5°	113.8	159.0	537.2	951.5	965.8
110°	129.1	170.4	512.7	967.9	1029.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	142.4	181.7	488.1	954.3	1046.6
115°	163.6	198.7	456.4	908.1	1034.3
117.5°	183.6	217.1	436.2	842.4	984.7
120°	196.9	229.4	427.0	798.4	939.7
122.5°	208.1	240.6	420.9	754.3	890.6
125°	225.0	256.3	413.0	695.8	820.8
127.5°	240.1	271.1	408.6	651.4	758.7
130°	249.3	279.3	406.6	623.5	719.8
132.5°	258.5	288.5	404.5	599.8	685.0
135°	271.0	301.0	401.5	566.7	639.3
137.5°	284.6	311.8	399.9	537.6	598.6
140°	292.8	319.0	398.9	519.0	574.0
142.5°	301.0	325.2	397.9	504.5	550.5
145°	313.2	335.7	396.3	481.5	517.8
147.5°	327.0	346.3	395.1	463.5	492.0
150°	336.2	352.5	395.1	453.1	475.6
152.5°	343.4	357.7	394.0	443.8	462.3
155°	354.1	366.6	393.8	432.4	444.9
157.5°	364.6	374.4	393.8	424.7	434.2
160°	370.8	379.5	393.8	419.5	427.0
162.5°	376.9	383.7	394.8	415.4	420.9
165°	383.6	388.6	395.1	411.7	413.0
167.5°	390.5	393.0	396.3	407.4	408.4
170°	392.5	395.0	396.3	405.3	405.3
172.5°	394.5	396.0	396.3	403.2	403.2
175°	397.6	398.9	396.3	401.4	400.2
177.5°	398.6	398.6	395.6	399.6	397.6
180°	397.6	397.6	397.6	397.6	397.6

(END OF REPORT)