

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: P563291

Luminaire Tested: **SQ4-PP3-050U-050D-935-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563291
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-050U-050D-935-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

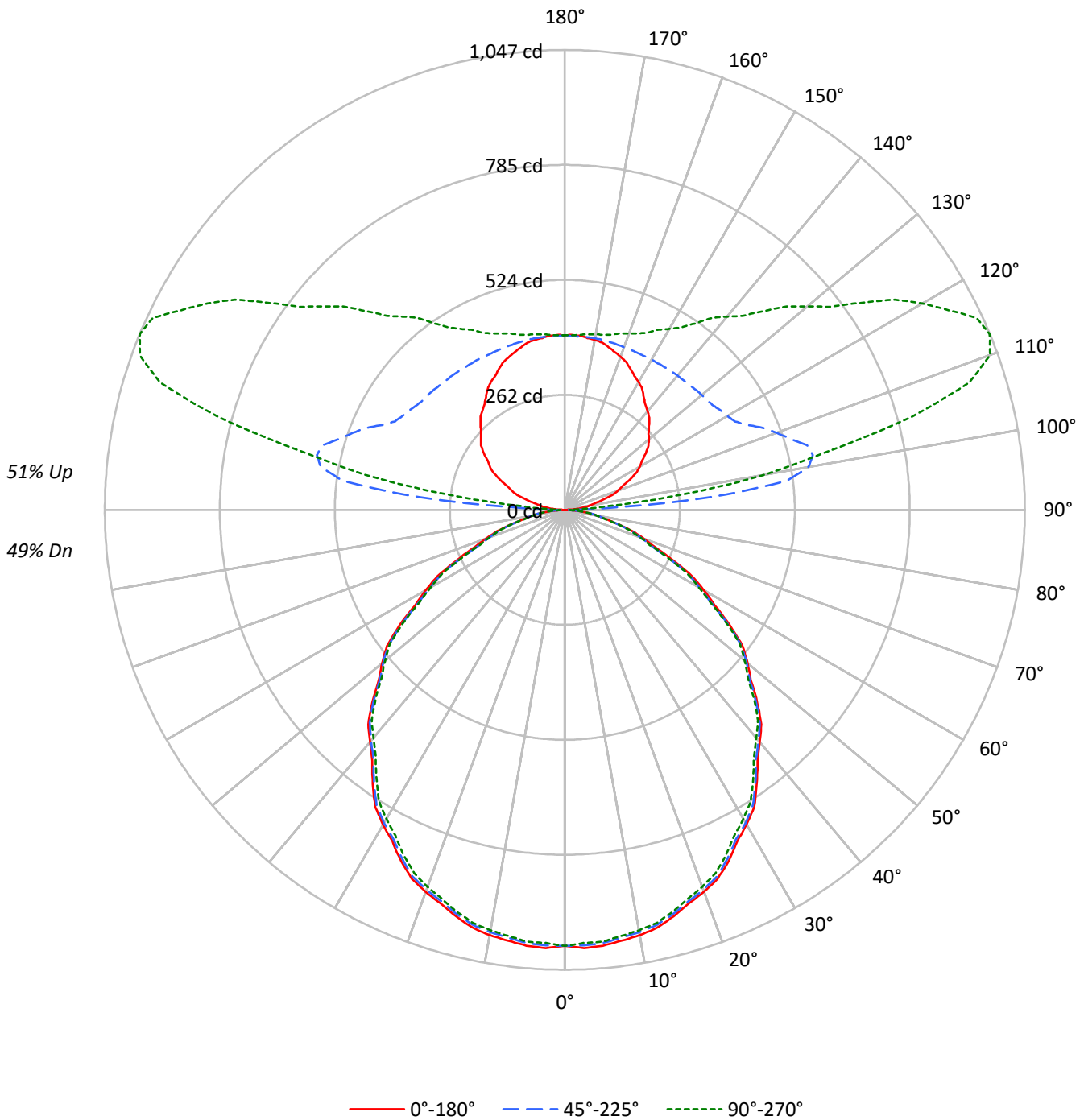
Lumens per Lamp: N/A
Luminaire Lumens: 5138.3 lumens
Efficiency: N/A
Efficacy: 114.7 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

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	56	56	56	49
1	98	94	90	86	90	86	83	80	73	71	69	61	59	58	49	48	47	42
2	89	82	76	71	82	76	71	66	64	60	57	54	51	48	44	42	40	36
3	82	72	65	59	75	67	61	55	57	52	48	48	44	41	39	36	34	30
4	75	64	56	50	69	59	52	47	51	45	41	42	38	35	35	32	30	26
5	68	57	49	43	63	53	46	40	45	40	35	38	34	31	31	28	26	23
6	63	51	43	37	58	48	40	35	41	35	31	34	30	27	28	25	23	20
7	58	46	38	33	54	43	36	31	37	31	27	31	27	24	26	23	20	18
8	54	42	34	29	50	39	32	27	34	28	24	29	24	21	24	21	18	16
9	50	38	31	26	46	36	29	24	31	25	22	26	22	19	22	19	16	14
10	47	35	28	23	43	33	26	22	28	23	20	24	20	17	20	17	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6106	6106	6106
5°	6150	6113	6092
10°	6140	6096	6070
15°	6100	6066	6033
20°	6059	6025	5979
25°	5987	5946	5887
30°	5876	5845	5771
35°	5722	5683	5611
40°	5539	5505	5441
45°	5388	5350	5297
50°	5195	5161	5112
55°	4926	4861	4823
60°	4484	4356	4334
65°	3950	3786	3774
70°	3412	3269	3269
75°	2935	2895	2854
80°	2589	2618	2557
85°	2025	2209	2209



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.9	1.8
10°-20°	268.0	5.2
20°-30°	401.5	7.8
30°-40°	470.9	9.2
40°-50°	472.4	9.2
50°-60°	403.0	7.8
60°-70°	262.8	5.1
70°-80°	131.8	2.6
80°-90°	38.0	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	6.5
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°	763.3	14.9
0°-40°	1234.2	24.0
0°-60°	2109.5	41.1
0°-90°	2542.2	49.5
90°-120°	1242.5	24.2
90°-150°	2260.4	44.0
90°-180°	2596.0	50.5
0°-180°	5138.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	993	993	993	993	993	
5°	996	987	990	987	987	95
15°	958	948	953	949	947	270
25°	882	872	876	868	867	406
35°	762	754	757	748	747	476
45°	619	615	615	609	609	477
55°	459	458	453	451	450	408
65°	271	266	260	258	259	271
75°	124	124	122	121	120	134
85°	29	31	31	31	31	34
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°	992.7	992.7	992.7	992.7	992.7
2.5°	998.9	990.8	992.7	991.2	987.1
5°	996.1	986.8	990.0	986.6	986.6
7.5°	989.4	979.1	982.4	978.9	978.7
10°	983.1	972.9	976.1	972.6	971.8
12.5°	974.0	963.8	967.8	963.6	963.4
15°	957.9	948.5	952.6	949.1	947.4
17.5°	939.6	929.4	934.4	929.5	928.8
20°	925.7	915.5	920.4	913.5	913.5
22.5°	909.0	898.8	904.4	895.4	895.4
25°	882.2	872.0	876.1	868.2	867.4
27.5°	850.3	840.3	844.6	835.7	835.5
30°	827.4	818.0	823.0	813.4	812.6
32.5°	802.3	793.6	797.3	787.7	786.8
35°	762.1	754.5	756.9	748.2	747.3
37.5°	719.8	712.0	714.8	707.3	707.0
40°	689.9	684.8	685.6	679.4	677.7
42.5°	662.1	656.3	657.0	650.9	650.6
45°	619.4	615.2	615.1	609.0	609.0
47.5°	574.2	571.0	570.0	565.0	564.8
50°	542.9	540.3	539.4	535.0	534.2
52.5°	510.2	509.0	506.0	502.3	502.2
55°	459.4	457.7	453.3	450.6	449.8
57.5°	404.2	400.8	395.8	392.0	392.7
60°	364.5	361.1	354.1	352.3	352.3
62.5°	326.2	322.2	315.1	312.7	314.1
65°	271.4	266.3	260.1	258.4	259.3
67.5°	221.7	217.1	210.4	210.3	209.7
70°	189.7	187.1	181.8	181.8	181.8
72.5°	161.1	159.9	156.1	156.1	155.4
75°	123.5	123.5	121.8	120.9	120.1
77.5°	92.6	92.9	92.0	91.1	89.6
80°	73.1	74.8	73.9	73.1	72.2
82.5°	55.0	56.7	56.5	55.0	54.8
85°	28.7	31.3	31.3	31.3	31.3
87.5°	7.9	11.4	12.9	13.5	14.1
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)