

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: P563963

Luminaire Tested: **SQ4-PR1-050U-050D-935-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563963
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PR1-050U-050D-935-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

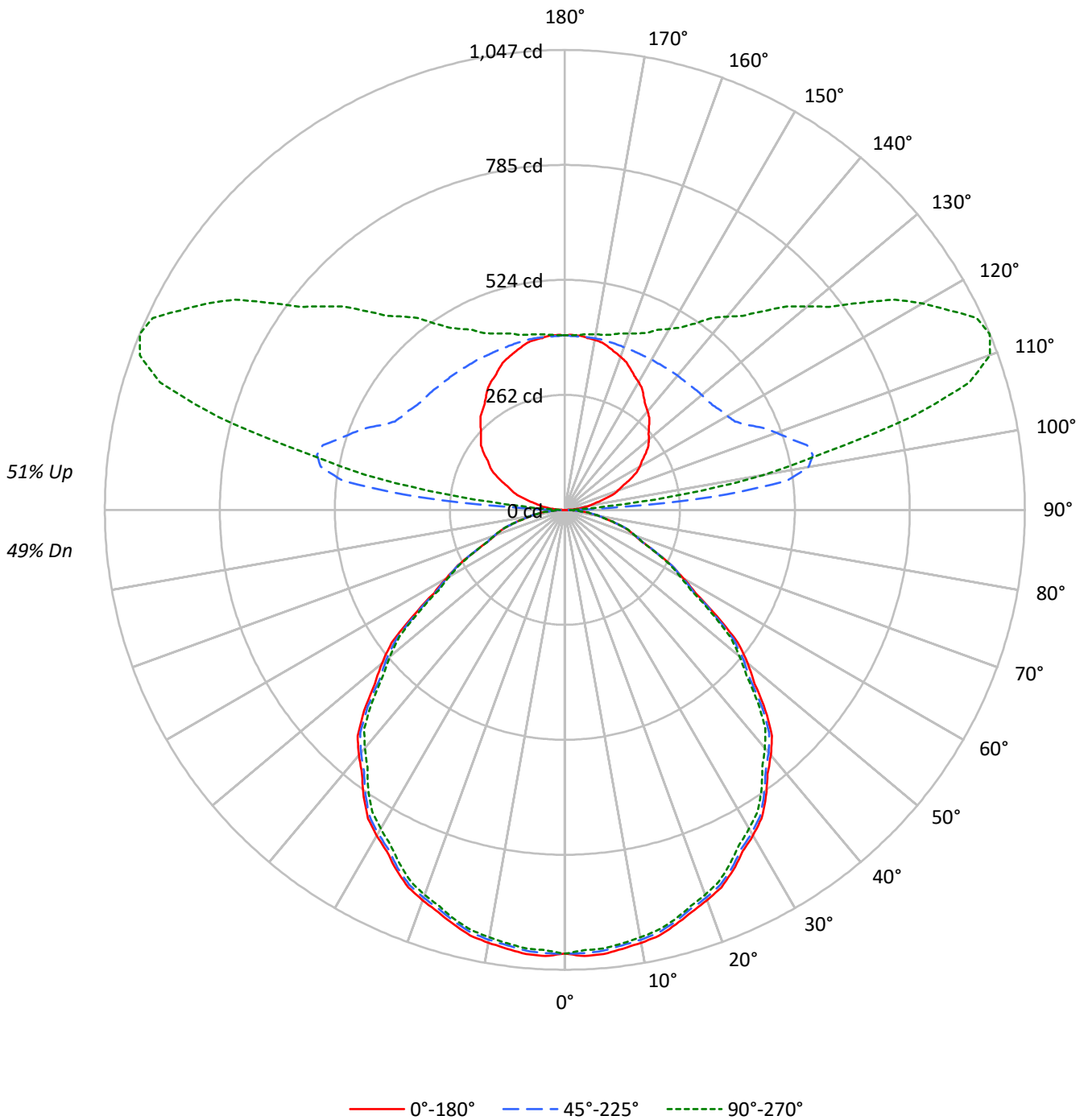
Lumens per Lamp: N/A
Luminaire Lumens: 5123.2 lumens
Efficiency: N/A
Efficacy: 114.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

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	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	87	83	80	73	71	69	61	59	58	49	48	47	42				
2	89	82	76	71	82	76	71	66	64	61	57	54	51	49	44	42	40	36				
3	82	72	65	60	75	67	61	56	57	52	48	48	44	41	39	37	35	31				
4	75	64	56	51	69	60	53	48	51	46	42	43	39	36	35	32	30	26				
5	69	57	49	43	63	53	46	41	46	40	36	38	34	31	32	29	26	23				
6	63	51	43	38	58	48	41	36	41	36	31	35	31	27	29	26	23	20				
7	59	47	39	33	54	43	36	31	37	32	28	32	27	24	26	23	21	18				
8	54	42	35	29	50	39	33	28	34	29	25	29	25	22	24	21	19	16				
9	51	39	31	26	47	36	29	25	31	26	22	27	22	19	22	19	17	15				
10	47	35	28	23	44	33	27	22	29	24	20	25	20	18	21	18	15	13				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6214	6214	6214
5°	6270	6222	6190
10°	6250	6207	6174
15°	6223	6184	6151
20°	6191	6152	6106
25°	6148	6107	6035
30°	6082	6038	5952
35°	5992	5939	5855
40°	5855	5792	5687
45°	5617	5518	5404
50°	5196	5071	4971
55°	4535	4432	4339
60°	3822	3789	3715
65°	3305	3318	3294
70°	3036	3052	3052
75°	2916	2916	2937
80°	2742	2773	2742
85°	2209	2456	2456



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.5	1.9
10°-20°	273.3	5.3
20°-30°	412.3	8.0
30°-40°	491.2	9.6
40°-50°	484.3	9.5
50°-60°	370.1	7.2
60°-70°	229.1	4.5
70°-80°	130.1	2.5
80°-90°	41.1	0.8
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°	781.2	15.2
0°-40°	1272.4	24.8
0°-60°	2126.9	41.5
0°-90°	2527.1	49.3
90°-120°	1242.5	24.3
90°-150°	2260.4	44.1
90°-180°	2596.0	50.7
0°-180°	5123.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1010	1010	1010	1010	1010	
5°	1016	1004	1008	1004	1002	96
15°	977	967	971	968	966	276
25°	906	895	900	890	889	417
35°	798	789	791	780	780	498
45°	646	637	634	623	621	495
55°	423	416	413	406	405	379
65°	227	225	228	226	226	230
75°	123	123	123	124	124	130
85°	31	33	35	35	35	36
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°	1010.3	1010.3	1010.3	1010.3	1010.3
2.5°	1016.6	1007.7	1010.3	1008.1	1003.3
5°	1015.5	1004.5	1007.7	1004.2	1002.5
7.5°	1007.7	996.8	1000.0	996.5	995.5
10°	1000.7	990.5	993.8	990.2	988.5
12.5°	993.1	982.2	986.1	981.9	980.2
15°	977.2	967.0	971.1	967.6	965.9
17.5°	959.8	948.9	953.0	949.0	946.8
20°	945.9	935.7	939.8	933.7	932.8
22.5°	930.6	920.4	924.5	916.3	916.1
25°	905.9	894.8	899.8	890.2	889.3
27.5°	876.5	866.2	870.4	860.6	859.6
30°	856.3	846.1	850.2	839.7	838.0
32.5°	833.3	823.8	827.2	816.7	815.7
35°	798.0	788.6	791.0	780.5	779.7
37.5°	757.8	749.3	750.6	739.1	738.3
40°	729.2	720.7	721.4	709.2	708.3
42.5°	697.9	689.4	688.7	676.5	675.6
45°	645.7	637.2	634.4	623.0	621.3
47.5°	586.2	577.7	572.4	563.2	562.0
50°	543.0	534.5	529.9	522.1	519.5
52.5°	496.4	487.8	484.0	476.8	474.3
55°	422.9	416.1	413.3	406.3	404.6
57.5°	353.1	348.5	347.7	340.9	340.2
60°	310.7	308.1	308.0	302.0	302.0
62.5°	274.5	272.6	273.9	269.9	269.2
65°	227.1	225.4	228.0	226.3	226.3
67.5°	189.7	189.7	191.3	190.6	190.6
70°	168.8	168.8	169.7	169.7	169.7
72.5°	150.0	149.3	151.6	151.6	150.9
75°	122.7	122.7	122.7	123.6	123.6
77.5°	95.5	95.7	96.4	96.2	95.5
80°	77.4	78.3	78.3	77.4	77.4
82.5°	59.3	60.2	60.2	60.0	59.3
85°	31.3	33.0	34.8	34.8	34.8
87.5°	9.3	12.8	15.7	16.2	15.5
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)