

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: P563990

Luminaire Tested: **SQ4-PR1-050U-075D-940-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563990
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-075D-940-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

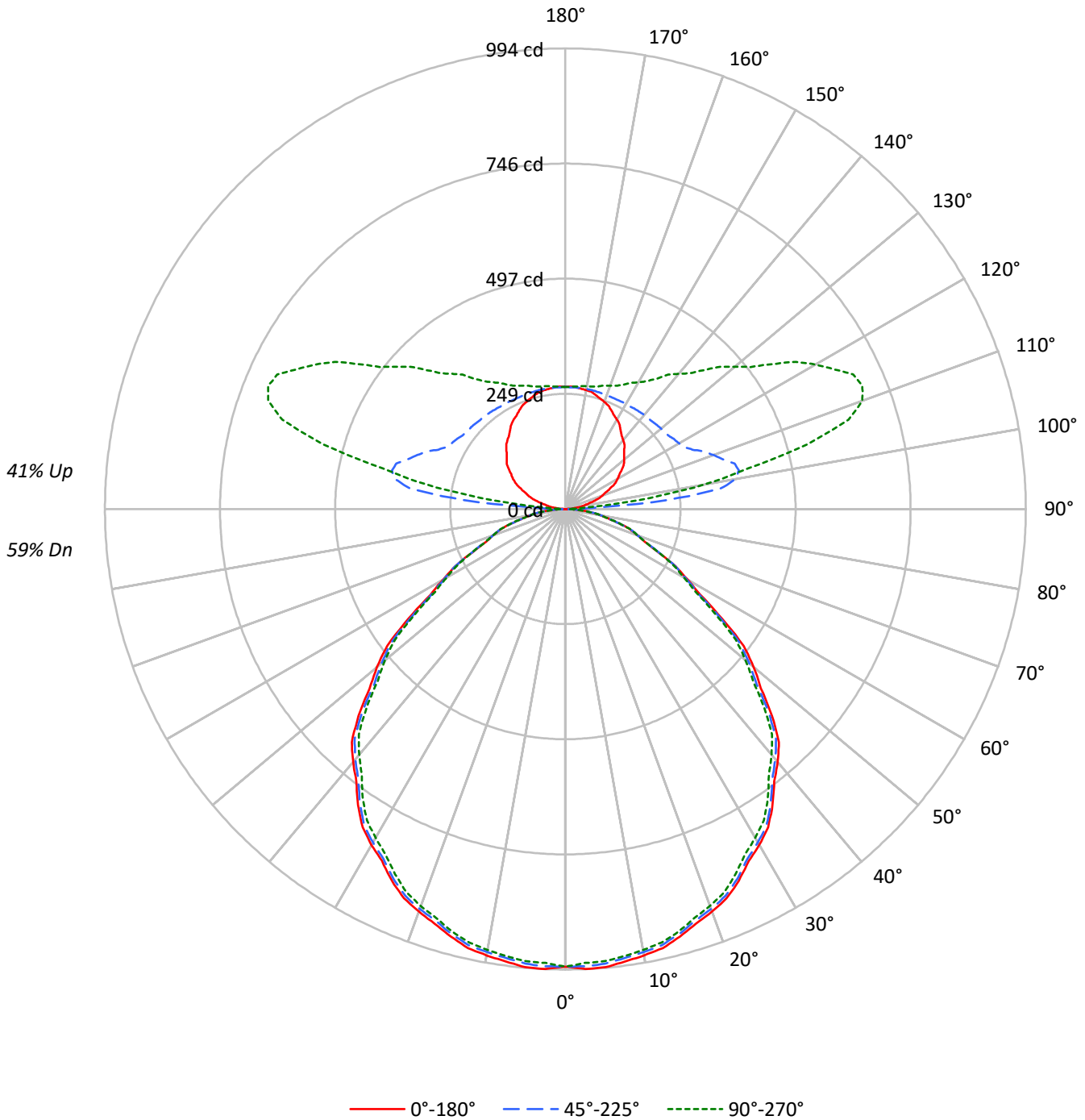
Lumens per Lamp: N/A
Luminaire Lumens: 4192.0 lumens
Efficiency: N/A
Efficacy: 115.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 36.3
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	76	76	76	64	64	64	59
1	100	96	92	89	93	90	86	83	78	76	73	67	65	64	57	56	55	50
2	91	84	78	73	85	79	73	69	69	65	61	59	56	54	51	49	47	43
3	84	74	67	61	78	70	63	58	61	56	52	53	49	46	45	43	40	37
4	77	66	58	52	71	62	55	49	54	49	44	47	43	40	41	38	35	32
5	71	59	51	45	66	55	48	43	49	43	39	43	38	35	37	33	31	28
6	65	53	45	39	61	50	43	37	44	38	34	39	34	30	33	30	27	24
7	60	48	40	34	56	45	38	33	40	34	30	35	30	27	31	27	24	22
8	56	44	36	30	52	41	34	29	37	31	27	32	28	24	28	24	22	19
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	26	22	20	17
10	49	37	29	25	46	35	28	24	31	25	22	27	23	20	24	20	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9113	9113	9113
5°	9195	9123	9076
10°	9165	9102	9054
15°	9125	9068	9020
20°	9079	9021	8954
25°	9015	8954	8850
30°	8918	8854	8727
35°	8786	8710	8585
40°	8586	8493	8340
45°	8236	8092	7925
50°	7619	7437	7290
55°	6650	6500	6363
60°	5604	5556	5447
65°	4846	4866	4829
70°	4451	4475	4475
75°	4274	4274	4306
80°	4022	4070	4022
85°	3239	3599	3599



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.4	2.2
10°-20°	267.2	6.4
20°-30°	403.1	9.6
30°-40°	480.2	11.5
40°-50°	473.5	11.3
50°-60°	361.8	8.6
60°-70°	223.9	5.3
70°-80°	127.2	3.0
80°-90°	39.7	0.9
90°-100°	126.6	3.0
100°-110°	343.9	8.2
110°-120°	353.6	8.4
120°-130°	282.7	6.7
130°-140°	222.2	5.3
140°-150°	170.3	4.1
150°-160°	122.5	2.9
160°-170°	74.9	1.8
170°-180°	25.2	0.6
0°-30°	763.7	18.2
0°-40°	1243.9	29.7
0°-60°	2079.2	49.6
0°-90°	2470.1	58.9
90°-120°	824.1	19.7
90°-150°	1499.3	35.8
90°-180°	1722.0	41.1
0°-180°	4192.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	988	988	988	988	988	
5°	993	982	985	982	980	94
15°	955	945	949	946	944	270
25°	886	875	880	870	869	408
35°	780	771	773	763	762	487
45°	631	623	620	609	607	484
55°	413	407	404	397	396	370
65°	222	220	223	221	221	225
75°	120	120	120	121	121	127
85°	31	32	34	34	34	36
90°	1	3	6	8	8	2
95°	19	69	220	96	64	20
105°	61	95	378	576	542	65
115°	108	132	303	602	686	107
125°	149	170	274	462	544	133
135°	180	200	266	376	424	139
145°	208	223	263	319	343	130
155°	235	243	261	287	295	108
165°	254	258	262	273	274	72
175°	264	265	263	266	265	25
180°	264	264	264	264	264	

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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°	993.8	985.1	987.7	985.5	980.9
5°	992.8	982.0	985.1	981.7	980.0
7.5°	985.1	974.5	977.6	974.2	973.2
10°	978.3	968.3	971.5	968.1	966.4
12.5°	970.8	960.2	964.0	959.9	958.2
15°	955.3	945.4	949.4	945.9	944.3
17.5°	938.3	927.7	931.7	927.7	925.6
20°	924.7	914.7	918.8	912.8	912.0
22.5°	909.7	899.8	903.8	895.8	895.6
25°	885.6	874.8	879.6	870.2	869.4
27.5°	856.8	846.8	850.9	841.3	840.3
30°	837.1	827.1	831.1	820.9	819.2
32.5°	814.6	805.3	808.7	798.4	797.4
35°	780.1	770.9	773.3	763.1	762.2
37.5°	740.8	732.5	733.8	722.6	721.7
40°	712.9	704.6	705.2	693.3	692.5
42.5°	682.3	673.9	673.2	661.3	660.5
45°	631.2	622.9	620.2	609.1	607.4
47.5°	573.0	564.7	559.6	550.5	549.4
50°	530.8	522.5	518.1	510.4	507.9
52.5°	485.2	476.9	473.2	466.1	463.6
55°	413.4	406.8	404.1	397.2	395.6
57.5°	345.2	340.7	339.9	333.3	332.6
60°	303.7	301.2	301.1	295.2	295.2
62.5°	268.3	266.5	267.8	263.9	263.2
65°	222.0	220.4	222.9	221.2	221.2
67.5°	185.5	185.5	187.0	186.3	186.3
70°	165.0	165.0	165.9	165.9	165.9
72.5°	146.7	146.0	148.2	148.2	147.5
75°	119.9	119.9	119.9	120.8	120.8
77.5°	93.4	93.6	94.3	94.1	93.4
80°	75.7	76.5	76.6	75.7	75.7
82.5°	58.0	58.8	58.9	58.7	58.0
85°	30.6	32.3	34.0	34.0	34.0
87.5°	9.0	12.2	14.8	15.1	14.5
90°	0.8	3.3	5.9	7.6	7.6
92.5°	7.6	34.7	60.2	25.9	21.9
95°	18.7	69.2	220.5	96.0	64.4
97.5°	30.9	76.5	338.0	263.0	184.7
100°	39.0	81.3	374.0	379.1	306.1
102.5°	47.1	86.1	383.5	468.8	404.5
105°	61.1	95.1	378.2	575.9	541.9
107.5°	75.5	105.5	356.3	631.1	640.6
110°	85.6	113.0	340.1	642.0	682.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	94.5	120.5	323.8	633.0	694.2
115°	108.5	131.8	302.7	602.3	686.0
117.5°	121.8	144.0	289.3	558.8	653.1
120°	130.6	152.2	283.2	529.6	623.3
122.5°	138.1	159.6	279.2	500.3	590.7
125°	149.2	170.0	273.9	461.5	544.4
127.5°	159.3	179.8	271.0	432.1	503.2
130°	165.4	185.3	269.7	413.6	477.4
132.5°	171.5	191.4	268.3	397.8	454.4
135°	179.8	199.7	266.3	375.9	424.0
137.5°	188.8	206.8	265.3	356.6	397.0
140°	194.2	211.6	264.6	344.3	380.8
142.5°	199.6	215.7	263.9	334.6	365.2
145°	207.8	222.7	262.9	319.4	343.4
147.5°	216.9	229.7	262.0	307.4	326.3
150°	223.0	233.8	262.0	300.5	315.5
152.5°	227.8	237.2	261.4	294.4	306.6
155°	234.9	243.2	261.2	286.8	295.1
157.5°	241.9	248.3	261.2	281.7	288.0
160°	245.9	251.7	261.2	278.3	283.2
162.5°	250.0	254.5	261.9	275.5	279.2
165°	254.4	257.7	262.0	273.1	273.9
167.5°	259.0	260.6	262.9	270.2	270.9
170°	260.3	262.0	262.9	268.8	268.8
172.5°	261.7	262.7	262.9	267.5	267.5
175°	263.7	264.6	262.9	266.3	265.4
177.5°	264.4	264.4	262.4	265.1	263.7
180°	263.7	263.7	263.7	263.7	263.7

(END OF REPORT)