

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: P564650

Luminaire Tested: **SQ4-PW1-050U-075D-840-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564650
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-075D-840-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

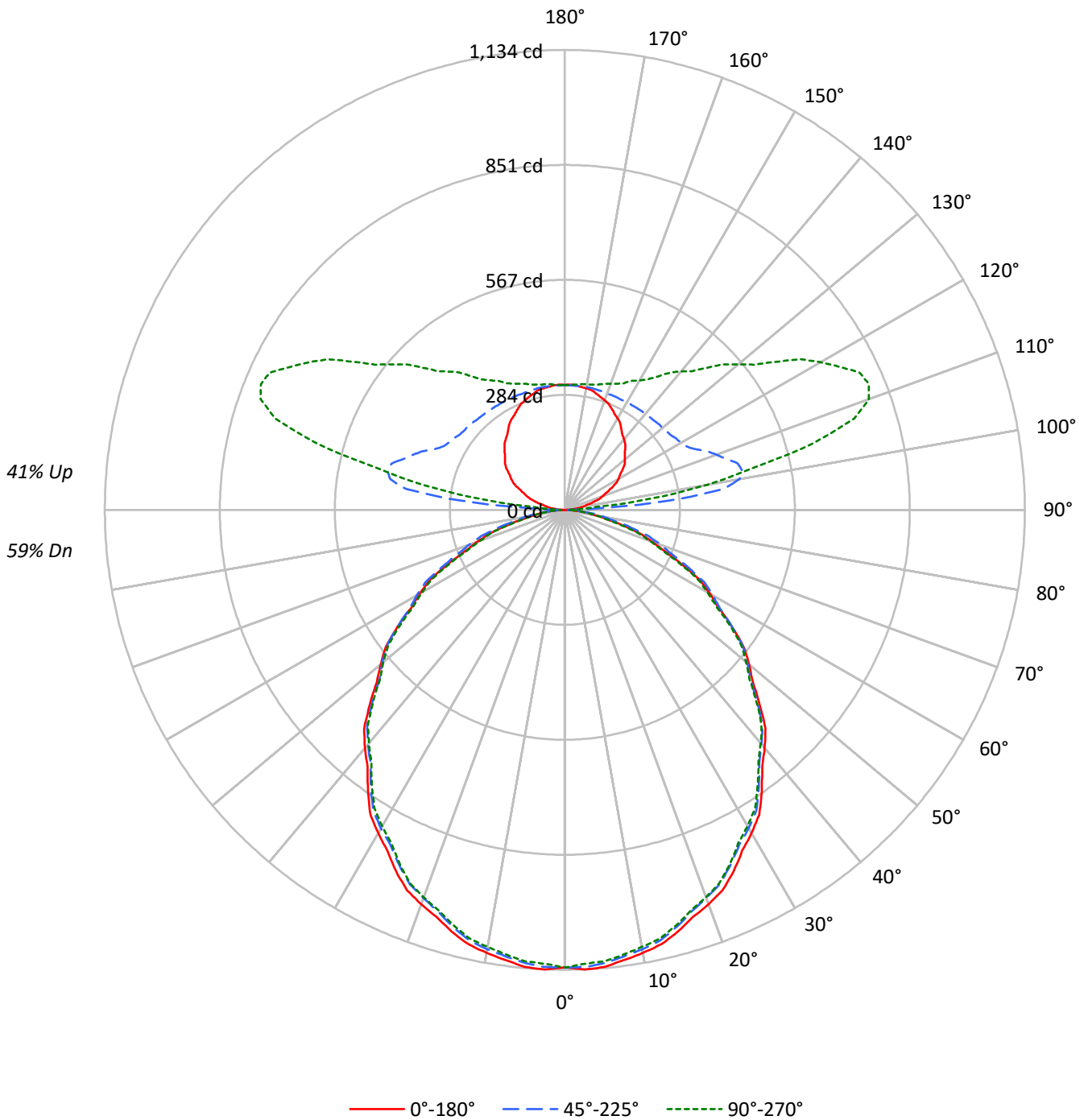
Lumens per Lamp: N/A
Luminaire Lumens: 4883.4 lumens
Efficiency: N/A
Efficacy: 134.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

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	88	93	89	86	83	78	75	73	67	65	63	57	56	55	50
2	91	84	77	72	85	78	73	68	68	64	60	59	56	53	50	48	46	42
3	83	74	66	60	77	69	62	57	60	55	51	52	48	45	45	42	39	36
4	76	65	57	51	71	61	54	48	54	48	43	46	42	39	40	37	34	31
5	70	58	50	44	65	55	47	42	48	42	38	42	37	34	36	32	30	27
6	64	52	44	38	60	49	42	36	43	37	33	38	33	29	33	29	26	23
7	60	47	39	33	55	44	37	32	39	33	29	34	30	26	30	26	23	21
8	55	43	35	30	52	40	33	28	36	30	26	31	27	23	27	24	21	19
9	52	39	32	26	48	37	30	25	33	27	23	29	24	21	25	22	19	17
10	48	36	29	24	45	34	27	23	30	25	21	27	22	19	23	20	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10409	10409	10409
5°	10476	10393	10347
10°	10393	10308	10253
15°	10282	10168	10130
20°	10159	10003	9983
25°	10017	9835	9805
30°	9805	9657	9593
35°	9527	9392	9337
40°	9229	9086	9050
45°	8871	8754	8715
50°	8503	8431	8375
55°	8105	8105	7978
60°	7612	7757	7482
65°	6966	7313	6792
70°	6140	6730	5980
75°	5244	6024	5101
80°	4065	5069	4118
85°	2625	3896	3472



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.2	2.2
10°-20°	299.9	6.1
20°-30°	444.9	9.1
30°-40°	520.6	10.7
40°-50°	518.2	10.6
50°-60°	447.5	9.2
60°-70°	322.1	6.6
70°-80°	168.9	3.5
80°-90°	43.1	0.9
90°-100°	147.9	3.0
100°-110°	401.8	8.2
110°-120°	413.2	8.5
120°-130°	330.3	6.8
130°-140°	259.5	5.3
140°-150°	199.0	4.1
150°-160°	143.1	2.9
160°-170°	87.5	1.8
170°-180°	29.5	0.6
0°-30°	851.0	17.4
0°-40°	1371.6	28.1
0°-60°	2337.3	47.9
0°-90°	2871.5	58.8
90°-120°	962.9	19.7
90°-150°	1751.8	35.9
90°-180°	2012.0	41.2
0°-180°	4883.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1128	1128	1128	1128	1128	
5°	1131	1118	1122	1119	1117	107
15°	1076	1063	1064	1062	1061	303
25°	984	968	966	960	963	452
35°	846	834	834	826	829	529
45°	680	674	671	669	668	525
55°	504	503	504	497	496	450
65°	319	329	335	322	311	316
75°	147	161	169	158	143	158
85°	25	33	37	35	33	33
90°	1	4	7	9	9	2
95°	22	81	258	112	75	23
105°	71	111	442	673	633	76
115°	127	154	354	704	802	125
125°	174	199	320	539	636	155
135°	210	233	311	439	495	162
145°	243	260	307	373	401	152
155°	274	284	305	335	345	127
165°	297	301	306	319	320	84
175°	308	309	307	311	310	29
180°	308	308	308	308	308	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1128.2	1128.2	1128.2	1128.2	1128.2
2.5°	1134.5	1125.2	1128.2	1125.6	1120.2
5°	1131.1	1118.5	1122.2	1119.2	1117.2
7.5°	1119.6	1107.9	1110.7	1107.4	1106.3
10°	1109.3	1097.6	1100.3	1096.3	1094.4
12.5°	1097.3	1084.9	1087.6	1083.6	1082.4
15°	1076.5	1062.9	1064.5	1062.5	1060.6
17.5°	1052.2	1038.4	1038.7	1035.5	1035.1
20°	1034.7	1020.1	1018.8	1014.9	1016.8
22.5°	1015.6	1000.3	998.9	993.4	996.2
25°	984.0	967.5	966.1	960.2	963.2
27.5°	947.4	931.1	931.1	922.9	926.0
30°	920.4	904.9	906.5	896.6	900.5
32.5°	891.8	877.8	878.7	868.8	872.7
35°	845.9	834.2	833.9	826.1	829.0
37.5°	798.9	788.6	787.0	782.5	783.2
40°	766.3	757.6	754.4	751.4	751.4
42.5°	732.2	724.2	721.0	718.8	718.0
45°	679.9	674.0	670.9	668.9	667.9
47.5°	628.2	622.7	620.0	618.6	617.6
50°	592.4	588.5	587.4	584.4	583.5
52.5°	556.6	554.3	553.2	549.4	548.5
55°	503.9	503.0	503.9	497.0	496.0
57.5°	449.1	450.6	453.8	444.4	442.1
60°	412.5	416.4	420.4	409.4	405.5
62.5°	375.1	381.3	387.1	374.4	369.0
65°	319.1	328.8	335.0	321.8	311.1
67.5°	265.0	277.0	284.5	270.3	258.2
70°	227.6	241.2	249.5	235.3	221.7
72.5°	195.0	210.2	216.9	203.5	189.8
75°	147.1	160.7	169.0	157.7	143.1
77.5°	104.4	117.2	124.0	114.2	102.2
80°	76.5	90.1	95.4	87.2	77.5
82.5°	54.3	65.5	69.2	64.3	57.6
85°	24.8	32.6	36.8	34.7	32.8
87.5°	6.6	12.6	16.5	16.9	17.7
90°	1.0	3.9	6.9	8.9	8.9
92.5°	8.9	40.5	70.3	30.2	25.6
95°	21.8	80.9	257.6	112.1	75.3
97.5°	36.1	89.3	394.9	307.3	215.8
100°	45.6	95.0	437.0	442.9	357.7
102.5°	55.1	100.6	448.0	547.8	472.6
105°	71.3	111.1	441.9	672.9	633.1
107.5°	88.2	123.3	416.3	737.4	748.5
110°	100.1	132.0	397.3	750.1	797.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	110.4	140.8	378.3	739.6	811.1
115°	126.8	154.0	353.7	703.7	801.6
117.5°	142.3	168.2	338.1	652.9	763.1
120°	152.6	177.8	330.9	618.8	728.3
122.5°	161.3	186.5	326.2	584.6	690.2
125°	174.4	198.6	320.0	539.2	636.1
127.5°	186.1	210.1	316.7	504.8	588.0
130°	193.2	216.5	315.1	483.2	557.8
132.5°	200.3	223.6	313.5	464.8	530.9
135°	210.1	233.3	311.1	439.2	495.4
137.5°	220.6	241.7	309.9	416.6	463.9
140°	226.9	247.2	309.1	402.2	444.9
142.5°	233.2	252.0	308.3	391.0	426.6
145°	242.8	260.2	307.2	373.2	401.3
147.5°	253.5	268.4	306.2	359.2	381.3
150°	260.6	273.2	306.2	351.1	368.6
152.5°	266.1	277.2	305.4	343.9	358.3
155°	274.5	284.1	305.2	335.1	344.8
157.5°	282.6	290.1	305.2	329.1	336.5
160°	287.3	294.1	305.2	325.1	330.9
162.5°	292.1	297.3	306.0	321.9	326.2
165°	297.2	301.1	306.2	319.1	320.0
167.5°	302.6	304.5	307.2	315.7	316.5
170°	304.2	306.1	307.2	314.1	314.1
172.5°	305.8	306.9	307.2	312.5	312.5
175°	308.1	309.1	307.2	311.1	310.1
177.5°	308.9	308.9	306.6	309.7	308.1
180°	308.1	308.1	308.1	308.1	308.1

(END OF REPORT)