

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: P564554

Luminaire Tested: **SQ4-PW1-025U-075D-840-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564554
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-PW1-025U-075D-840-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

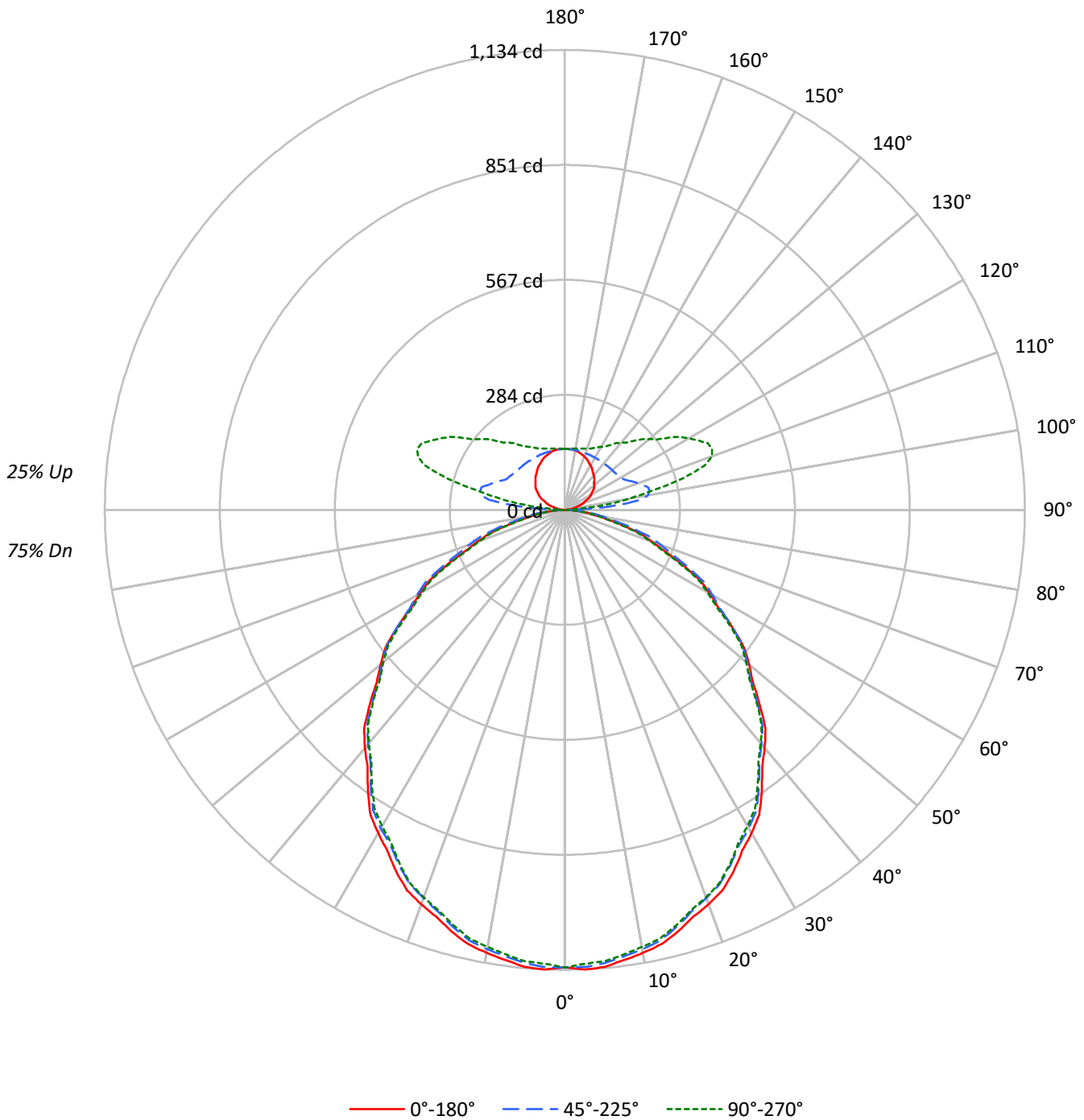
Lumens per Lamp: N/A
Luminaire Lumens: 3846.7 lumens
Efficiency: N/A
Efficacy: 128.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 29.9
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	113	113	113	113	107	107	107	107	97	97	97	87	87	87	79	79	79	75				
1	103	99	95	91	98	94	91	88	86	83	80	77	75	73	70	68	67	63				
2	94	87	80	75	89	83	77	72	75	71	67	68	65	62	62	59	57	53				
3	86	76	69	63	82	73	66	60	66	61	56	60	56	52	55	51	48	45				
4	79	68	59	53	75	65	57	51	59	53	48	54	49	45	49	45	42	39				
5	73	61	52	46	69	58	50	44	53	47	42	48	43	39	44	40	36	34				
6	67	54	46	40	64	52	44	39	48	41	37	44	38	34	40	36	32	30				
7	62	49	41	35	59	47	40	34	44	37	32	40	35	30	37	32	29	26				
8	58	45	37	31	55	43	36	31	40	33	29	37	31	27	34	29	26	23				
9	54	41	33	28	51	40	32	27	37	30	26	34	28	25	31	27	23	21				
10	50	38	30	25	48	37	30	25	34	28	24	31	26	22	29	24	21	19				

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	2.8
10°-20°	299.9	7.8
20°-30°	444.9	11.6
30°-40°	520.6	13.5
40°-50°	518.2	13.5
50°-60°	447.5	11.6
60°-70°	322.1	8.4
70°-80°	168.9	4.4
80°-90°	42.7	1.1
90°-100°	73.4	1.9
100°-110°	192.9	5.0
110°-120°	200.0	5.2
120°-130°	160.4	4.2
130°-140°	125.9	3.3
140°-150°	96.6	2.5
150°-160°	69.6	1.8
160°-170°	42.6	1.1
170°-180°	14.4	0.4
0°-30°	851.0	22.1
0°-40°	1371.6	35.7
0°-60°	2337.3	60.8
0°-90°	2871.1	74.6
90°-120°	466.2	12.1
90°-150°	849.1	22.1
90°-180°	976.0	25.4
0°-180°	3846.7	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	3	8	4	4	2
95°	10	38	126	65	44	11
105°	35	53	213	324	302	37
115°	62	75	171	341	389	61
125°	86	96	155	263	310	76
135°	102	113	150	212	240	79
145°	119	126	149	181	195	74
155°	134	138	149	163	168	62
165°	145	147	149	154	156	41
175°	150	150	150	152	152	14
180°	150	150	150	150	150	



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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	12.4	16.7	15.9	16.7
90°	1.0	2.9	7.7	3.9	3.9
92.5°	4.1	19.5	43.2	19.1	12.4
95°	9.6	38.0	126.4	65.1	44.4
97.5°	16.8	41.7	189.1	150.4	110.8
100°	22.2	44.8	208.4	211.2	164.0
102.5°	26.8	48.0	213.8	263.1	222.7
105°	34.7	52.7	213.2	323.7	302.0
107.5°	42.8	59.4	201.1	355.2	360.5
110°	48.2	63.3	191.1	363.3	386.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	53.6	68.0	181.8	358.2	392.9
115°	61.8	75.0	170.8	340.7	388.9
117.5°	69.7	81.7	163.3	316.5	369.9
120°	74.3	85.6	160.2	300.3	352.2
122.5°	78.9	90.3	157.9	284.1	335.2
125°	85.9	96.3	155.3	262.6	309.7
127.5°	91.5	102.0	153.2	245.2	285.0
130°	94.6	105.9	152.5	234.3	271.1
132.5°	97.6	109.0	151.7	225.0	258.0
135°	102.3	112.7	150.5	212.0	240.3
137.5°	107.1	117.3	150.3	202.2	225.4
140°	111.0	120.4	149.6	194.4	216.1
142.5°	114.1	122.7	149.6	189.0	207.6
145°	118.7	126.2	148.6	180.8	194.9
147.5°	123.3	130.7	148.6	173.9	185.6
150°	126.4	133.0	148.6	170.0	179.5
152.5°	129.5	134.6	148.6	166.9	174.1
155°	134.1	137.9	148.6	163.2	167.9
157.5°	137.6	141.2	148.6	159.9	163.3
160°	139.9	142.7	148.6	158.3	160.2
162.5°	142.2	144.3	148.6	156.7	158.6
165°	144.7	146.6	148.6	154.4	156.3
167.5°	147.1	148.0	149.6	153.4	154.2
170°	148.6	149.5	149.6	153.4	153.4
172.5°	149.4	149.6	149.6	152.6	151.9
175°	150.5	150.5	149.6	151.5	151.5
177.5°	150.5	150.5	149.8	151.3	150.5
180°	150.5	150.5	150.5	150.5	150.5

(END OF REPORT)