

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: P563269

Luminaire Tested: **SQ4-PP3-025U-125D-940-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563269
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-PP3-025U-125D-940-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

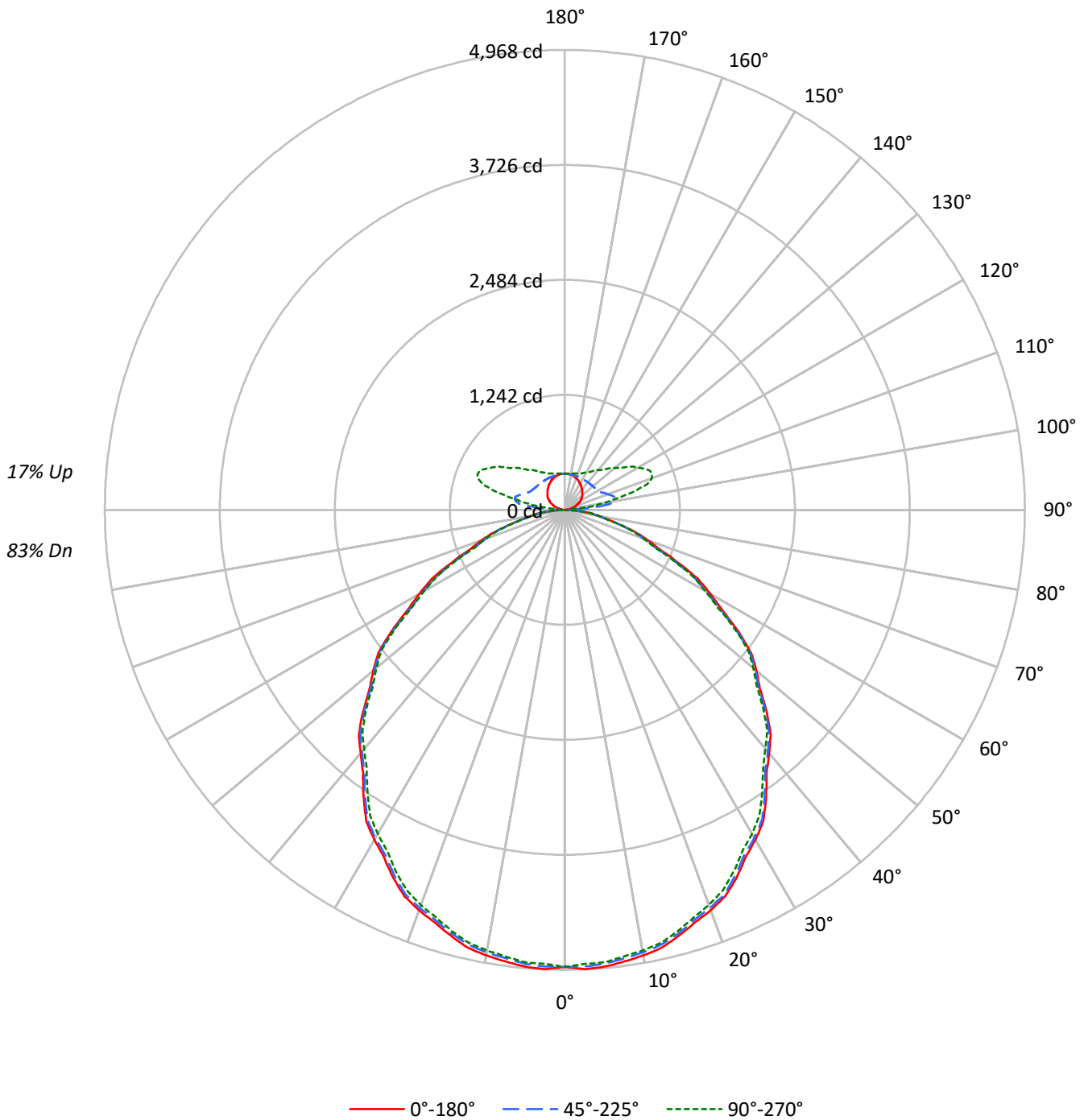
Lumens per Lamp: N/A
Luminaire Lumens: 15166.6 lumens
Efficiency: N/A
Efficacy: 97.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 156.2
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	115	115	115	115	110	110	110	110	102	102	102	94	94	94	87	87	87	83
1	106	101	97	94	101	97	94	91	90	87	85	83	81	79	77	76	74	71
2	96	89	82	77	92	86	80	75	79	75	71	74	70	67	68	65	63	60
3	88	78	71	65	84	76	69	63	70	65	60	65	61	57	61	57	54	51
4	81	70	61	55	77	67	60	54	63	56	51	58	53	49	54	50	46	44
5	74	62	54	48	71	60	52	47	56	50	45	53	47	43	49	44	41	38
6	69	56	48	42	66	54	46	41	51	44	39	48	42	37	45	40	36	34
7	64	51	43	37	61	49	42	36	46	40	35	43	38	33	41	36	32	30
8	59	46	38	33	57	45	37	32	42	36	31	40	34	30	38	32	29	27
9	55	43	35	29	53	41	34	29	39	32	28	37	31	27	35	30	26	24
10	52	39	32	27	50	38	31	26	36	30	25	34	28	24	32	27	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15181	15181	15181
5°	15293	15199	15146
10°	15267	15159	15091
15°	15166	15083	15001
20°	15065	14980	14867
25°	14886	14783	14637
30°	14611	14534	14350
35°	14229	14131	13952
40°	13773	13687	13530
45°	13398	13303	13171
50°	12916	12833	12709
55°	12248	12085	11993
60°	11150	10830	10777
65°	9823	9414	9382
70°	8480	8130	8130
75°	7299	7197	7094
80°	6436	6512	6360
85°	5039	5494	5494



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	466.8	3.1
10°-20°	1332.8	8.8
20°-30°	1996.4	13.2
30°-40°	2341.6	15.4
40°-50°	2348.9	15.5
50°-60°	2003.8	13.2
60°-70°	1306.8	8.6
70°-80°	655.6	4.3
80°-90°	183.5	1.2
90°-100°	190.3	1.3
100°-110°	500.2	3.3
110°-120°	518.7	3.4
120°-130°	416.0	2.7
130°-140°	326.4	2.2
140°-150°	250.5	1.7
150°-160°	180.4	1.2
160°-170°	110.4	0.7
170°-180°	37.3	0.2
0°-30°	3796.0	25.0
0°-40°	6137.6	40.5
0°-60°	10490.4	69.2
0°-90°	12636.4	83.3
90°-120°	1209.1	8.0
90°-150°	2202.1	14.5
90°-180°	2530.0	16.7
0°-180°	15166.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4936	4936	4936	4936	4936	
5°	4954	4907	4923	4906	4906	470
15°	4763	4717	4737	4720	4711	1344
25°	4387	4336	4357	4318	4313	2017
35°	3790	3752	3764	3721	3716	2367
45°	3080	3059	3059	3028	3028	2372
55°	2284	2276	2254	2241	2237	2030
65°	1350	1324	1294	1285	1289	1347
75°	614	614	606	601	597	666
85°	143	156	156	156	156	168
90°	2	7	20	10	10	7
95°	25	98	328	169	115	28
105°	90	137	553	840	783	95
115°	160	194	443	884	1008	158
125°	223	250	403	681	803	198
135°	265	292	390	550	623	205
145°	308	327	385	469	506	193
155°	348	358	385	423	435	160
165°	375	380	385	400	405	106
175°	390	390	388	393	393	37
180°	390	390	390	390	390	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4936.3	4936.3	4936.3	4936.3	4936.3
2.5°	4967.5	4926.9	4936.3	4929.0	4908.7
5°	4953.7	4907.1	4923.4	4906.1	4906.1
7.5°	4919.9	4869.1	4885.3	4868.0	4867.1
10°	4888.8	4838.0	4854.1	4836.7	4832.5
12.5°	4843.8	4793.0	4812.6	4791.8	4791.0
15°	4763.3	4716.8	4737.3	4719.8	4711.4
17.5°	4672.4	4621.7	4646.5	4622.2	4618.8
20°	4603.2	4552.5	4577.3	4542.7	4542.7
22.5°	4520.2	4469.4	4497.7	4452.7	4452.7
25°	4386.9	4336.1	4356.6	4317.6	4313.4
27.5°	4228.6	4178.6	4200.0	4155.9	4155.0
30°	4114.3	4067.8	4092.7	4045.0	4040.8
32.5°	3989.7	3946.6	3964.7	3917.0	3912.7
35°	3789.9	3751.8	3763.9	3720.6	3716.3
37.5°	3579.6	3540.7	3554.5	3517.3	3515.6
40°	3430.8	3405.4	3409.2	3378.7	3370.2
42.5°	3292.3	3263.6	3267.2	3236.9	3235.2
45°	3080.4	3059.2	3058.7	3028.4	3028.4
47.5°	2855.4	2839.3	2834.6	2809.5	2808.7
50°	2699.6	2686.9	2682.3	2660.6	2656.4
52.5°	2537.0	2531.0	2516.2	2498.0	2497.2
55°	2284.3	2275.8	2254.0	2240.9	2236.7
57.5°	2010.0	1993.1	1968.5	1949.5	1952.9
60°	1812.7	1795.8	1760.8	1752.2	1752.2
62.5°	1622.4	1602.1	1567.0	1555.0	1561.8
65°	1349.8	1324.4	1293.6	1285.0	1289.2
67.5°	1102.4	1079.5	1046.1	1046.0	1042.6
70°	943.1	930.5	904.2	904.2	904.2
72.5°	801.2	795.3	776.1	776.1	772.7
75°	614.3	614.3	605.7	601.3	597.0
77.5°	460.3	462.0	457.7	453.2	445.6
80°	363.4	371.9	367.7	363.3	359.1
82.5°	273.4	281.9	281.2	273.4	272.6
85°	142.8	155.5	155.7	155.7	155.7
87.5°	38.6	53.1	59.4	57.5	60.8
90°	2.5	7.4	20.0	10.0	10.0
92.5°	10.5	50.6	112.1	49.6	32.0
95°	25.0	98.4	327.8	168.9	115.1
97.5°	43.5	108.1	490.5	390.0	287.3
100°	57.6	116.3	540.5	547.8	425.4
102.5°	69.6	124.4	554.5	682.3	577.6
105°	90.1	136.6	553.0	839.5	783.3
107.5°	111.1	154.2	521.5	921.2	934.9
110°	125.1	164.3	495.5	942.2	1001.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	139.1	176.3	471.5	928.9	1019.0
115°	160.2	194.4	442.9	883.7	1008.5
117.5°	180.7	212.0	423.4	820.9	959.4
120°	192.7	222.0	415.4	778.8	913.4
122.5°	204.7	234.1	409.4	736.7	869.3
125°	222.7	249.6	402.9	680.9	803.3
127.5°	237.2	264.6	397.4	636.0	739.2
130°	245.2	274.6	395.4	607.8	703.2
132.5°	253.2	282.6	393.4	583.5	669.1
135°	265.3	292.2	390.4	549.7	623.1
137.5°	277.8	304.2	389.9	524.4	584.6
140°	287.8	312.2	387.9	504.3	560.5
142.5°	295.8	318.3	387.9	490.1	538.5
145°	307.8	327.4	385.4	468.8	505.5
147.5°	319.8	338.9	385.4	451.1	481.5
150°	327.8	344.9	385.4	441.0	465.4
152.5°	335.8	349.0	385.4	432.8	451.4
155°	347.8	357.6	385.4	423.2	435.4
157.5°	356.8	366.1	385.4	414.6	423.4
160°	362.8	370.2	385.4	410.5	415.4
162.5°	368.9	374.2	385.4	406.5	411.4
165°	375.4	380.3	385.4	400.5	405.4
167.5°	381.4	383.8	387.9	397.9	399.9
170°	385.4	387.8	387.9	397.9	397.9
172.5°	387.4	387.9	387.9	395.8	393.9
175°	390.4	390.4	387.9	392.9	392.9
177.5°	390.4	390.4	388.4	392.3	390.4
180°	390.4	390.4	390.4	390.4	390.4

(END OF REPORT)