

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: P520004

Luminaire Tested: **SQ4-F-075U-075D-830-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P520004
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, G3-1910-536-18)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-F-075U-075D-830-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

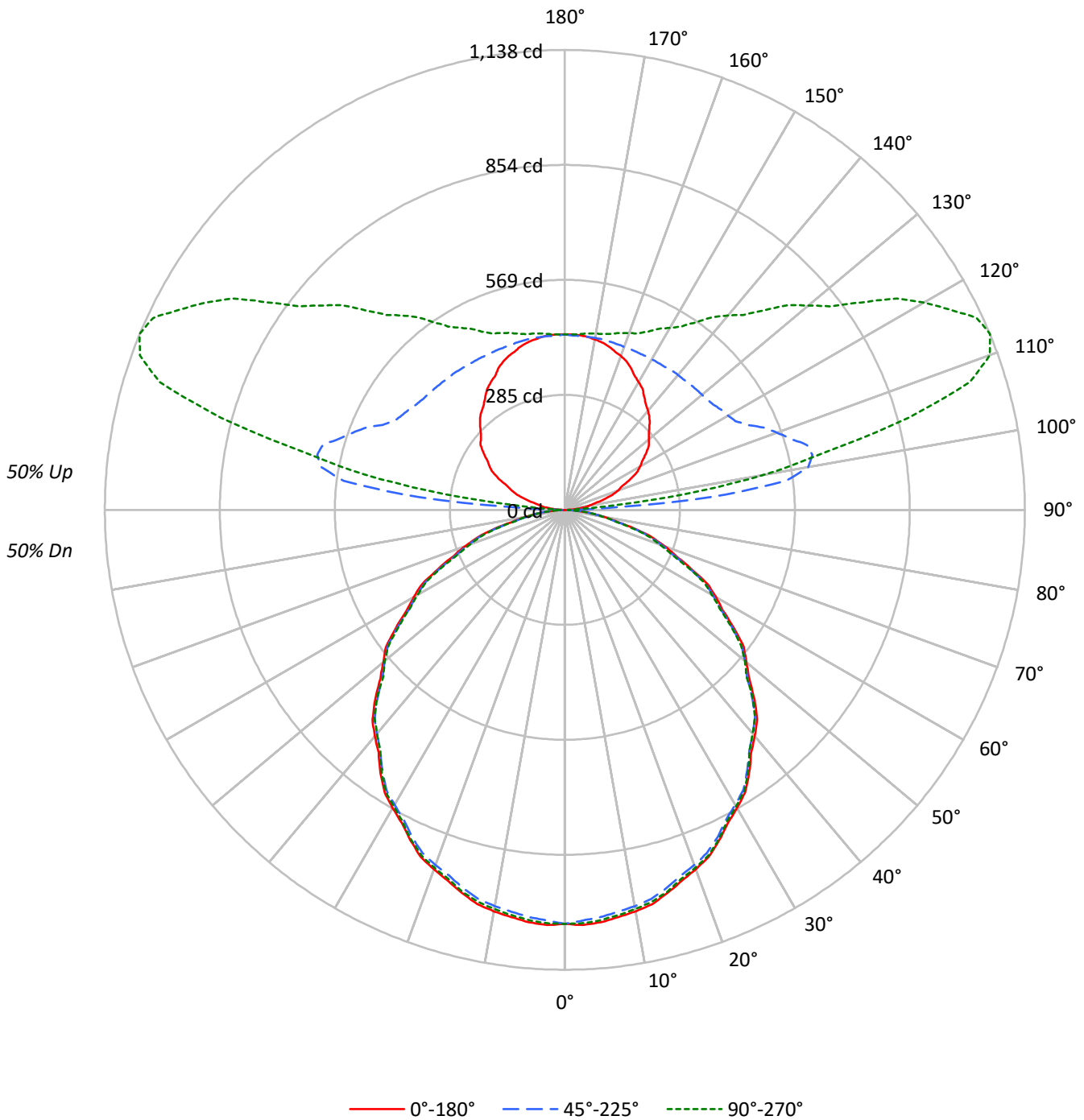
Lumens per Lamp: N/A
Luminaire Lumens: 5623.7 lumens
Efficiency: N/A
Efficacy: 132.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 42.5
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



TEST NUMBER: P520004
CATALOG NUMBER: SQ4-F-075U-075D-830-1D-UNV-STD-W-4

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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	98	93	89	86	90	86	83	80	73	71	68	61	59	57	49	48	47	42
2	89	81	75	70	82	75	70	65	64	60	56	53	50	48	43	41	40	35
3	81	72	64	58	74	66	60	55	56	51	47	47	43	40	38	36	34	29
4	74	63	55	49	68	59	52	46	50	44	40	42	38	34	34	31	29	25
5	68	56	48	42	62	52	45	40	45	39	35	37	33	30	31	28	25	22
6	63	50	42	36	57	47	40	34	40	34	30	34	29	26	28	25	22	19
7	58	45	37	32	53	42	35	30	36	31	26	31	26	23	25	22	20	17
8	54	41	33	28	49	38	31	27	33	27	23	28	24	20	23	20	17	15
9	50	38	30	25	46	35	28	24	30	25	21	26	21	18	21	18	16	14
10	47	34	27	22	43	32	26	21	28	23	19	24	20	17	20	17	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9452	9452	9452
5°	9488	9368	9437
10°	9451	9329	9399
15°	9378	9262	9342
20°	9293	9184	9257
25°	9192	9096	9162
30°	9075	8976	9025
35°	8955	8862	8903
40°	8804	8715	8703
45°	8653	8544	8569
50°	8413	8347	8347
55°	8216	8112	8038
60°	7953	7815	7746
65°	7523	7381	7281
70°	7068	6892	6717
75°	6356	6124	5992
80°	5085	4984	4936
85°	3049	3440	3546



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.7	1.7
10°-20°	275.3	4.9
20°-30°	413.6	7.4
30°-40°	493.5	8.8
40°-50°	506.1	9.0
50°-60°	451.0	8.0
60°-70°	336.3	6.0
70°-80°	182.4	3.2
80°-90°	43.0	0.8
90°-100°	204.6	3.6
100°-110°	562.9	10.0
110°-120°	581.0	10.3
120°-130°	465.5	8.3
130°-140°	365.6	6.5
140°-150°	280.2	5.0
150°-160°	201.4	3.6
160°-170°	123.2	2.2
170°-180°	41.5	0.7
0°-30°	785.6	14.0
0°-40°	1279.2	22.7
0°-60°	2236.3	39.8
0°-90°	2797.9	49.8
90°-120°	1348.4	24.0
90°-150°	2459.6	43.7
90°-180°	2826.0	50.3
0°-180°	5623.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1024	1024	1024	1024	1024	
5°	1024	1023	1012	1020	1019	97
15°	982	980	970	977	978	277
25°	903	902	894	898	900	416
35°	795	793	787	787	790	497
45°	663	660	655	655	657	510
55°	511	510	504	500	500	456
65°	345	345	338	334	334	343
75°	178	175	172	169	168	187
85°	29	31	32	33	34	40
90°	1	4	6	8	8	3
95°	30	112	362	155	99	32
105°	101	155	620	945	881	106
115°	178	217	498	990	1124	176
125°	246	280	451	763	894	219
135°	296	329	438	617	699	229
145°	342	366	432	526	567	215
155°	388	400	429	473	486	178
165°	419	424	431	449	451	118
175°	434	435	432	437	436	41
180°	434	434	434	434	434	

TEST NUMBER: P520004

CATALOG NUMBER: SQ4-F-075U-075D-830-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1024.5	1024.5	1024.5	1024.5	1024.5
2.5°	1028.2	1026.1	1017.1	1024.5	1023.8
5°	1024.5	1022.7	1011.5	1019.9	1019.0
7.5°	1016.1	1014.2	1003.2	1011.5	1011.3
10°	1008.8	1006.0	995.8	1004.0	1003.2
12.5°	999.1	996.4	986.0	994.4	993.5
15°	981.8	979.9	969.7	977.2	978.1
17.5°	962.1	958.7	949.4	956.7	957.7
20°	946.5	943.8	935.4	941.8	942.8
22.5°	930.1	927.4	919.0	925.5	926.4
25°	902.9	901.9	893.5	898.3	900.0
27.5°	873.3	870.8	864.0	867.5	869.4
30°	851.8	849.9	842.5	845.3	847.1
32.5°	829.5	828.4	821.7	823.0	825.5
35°	795.1	793.3	786.8	786.9	790.5
37.5°	757.0	755.0	749.6	748.7	750.1
40°	731.0	728.3	723.6	722.6	722.6
42.5°	704.3	702.2	696.1	694.5	696.6
45°	663.2	660.5	654.8	654.9	656.7
47.5°	618.8	617.7	611.2	608.2	608.9
50°	586.1	587.9	581.5	577.8	581.5
52.5°	557.9	556.8	551.0	547.3	548.8
55°	510.8	509.9	504.3	499.7	499.7
57.5°	463.7	461.3	455.5	452.1	454.7
60°	431.0	430.0	423.5	417.1	419.8
62.5°	398.2	396.7	390.1	385.9	387.9
65°	344.6	344.6	338.1	334.4	333.5
67.5°	297.6	293.3	289.6	285.1	283.9
70°	262.0	258.3	255.5	251.6	249.0
72.5°	227.0	224.9	220.5	216.8	216.2
75°	178.3	174.7	171.8	169.1	168.1
77.5°	126.8	126.2	123.5	122.0	122.6
80°	95.7	95.7	93.8	93.8	92.9
82.5°	67.4	68.2	67.8	66.3	66.1
85°	28.8	30.6	32.5	32.6	33.5
87.5°	5.4	9.5	9.4	9.8	9.8
90°	0.9	3.6	6.5	8.3	8.3
92.5°	12.7	54.4	94.3	36.2	29.7
95°	30.4	111.7	361.8	154.7	98.8
97.5°	49.7	123.8	552.1	425.4	300.1
100°	63.7	131.4	611.9	617.6	503.9
102.5°	77.0	140.4	627.4	766.3	661.9
105°	100.6	154.7	620.2	944.6	881.4
107.5°	123.1	172.5	584.9	1031.8	1050.6
110°	139.4	184.5	558.3	1053.6	1118.6

TEST NUMBER: P520004

CATALOG NUMBER: SQ4-F-075U-075D-830-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	154.2	197.8	531.8	1039.5	1138.5
115°	178.1	216.9	497.5	990.5	1124.1
117.5°	201.0	236.7	475.7	921.7	1072.8
120°	215.0	249.3	466.1	870.1	1026.2
122.5°	227.6	261.8	459.4	824.9	973.1
125°	245.5	279.7	451.3	763.4	894.3
127.5°	262.4	295.1	445.9	712.2	826.9
130°	271.3	304.7	443.0	681.7	786.3
132.5°	281.7	315.1	440.7	654.9	749.4
135°	296.3	328.7	438.4	617.4	698.7
137.5°	309.9	340.1	436.3	587.2	654.2
140°	320.2	348.2	435.7	567.1	627.6
142.5°	329.1	355.0	434.1	549.2	601.0
145°	342.4	365.8	431.9	526.0	566.6
147.5°	356.6	376.9	430.8	505.6	538.1
150°	365.4	383.5	430.1	494.3	519.6
152.5°	373.5	390.2	429.3	484.7	505.6
155°	387.6	400.2	429.2	472.8	486.4
157.5°	397.8	408.1	429.2	463.1	472.5
160°	405.1	413.3	429.2	458.0	465.1
162.5°	411.1	417.8	429.9	453.5	459.2
165°	419.0	424.4	431.0	448.6	451.3
167.5°	424.5	428.7	431.9	444.5	445.2
170°	428.2	431.0	431.9	443.0	443.0
172.5°	431.2	432.4	431.9	440.7	440.1
175°	433.8	434.7	431.9	437.4	436.5
177.5°	434.5	434.5	431.5	435.9	434.5
180°	433.8	433.8	433.8	433.8	433.8

(END OF REPORT)