

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: P564738

Luminaire Tested: **SQ4-PW1-075U-075D-830-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564738
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-PW1-075U-075D-830-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

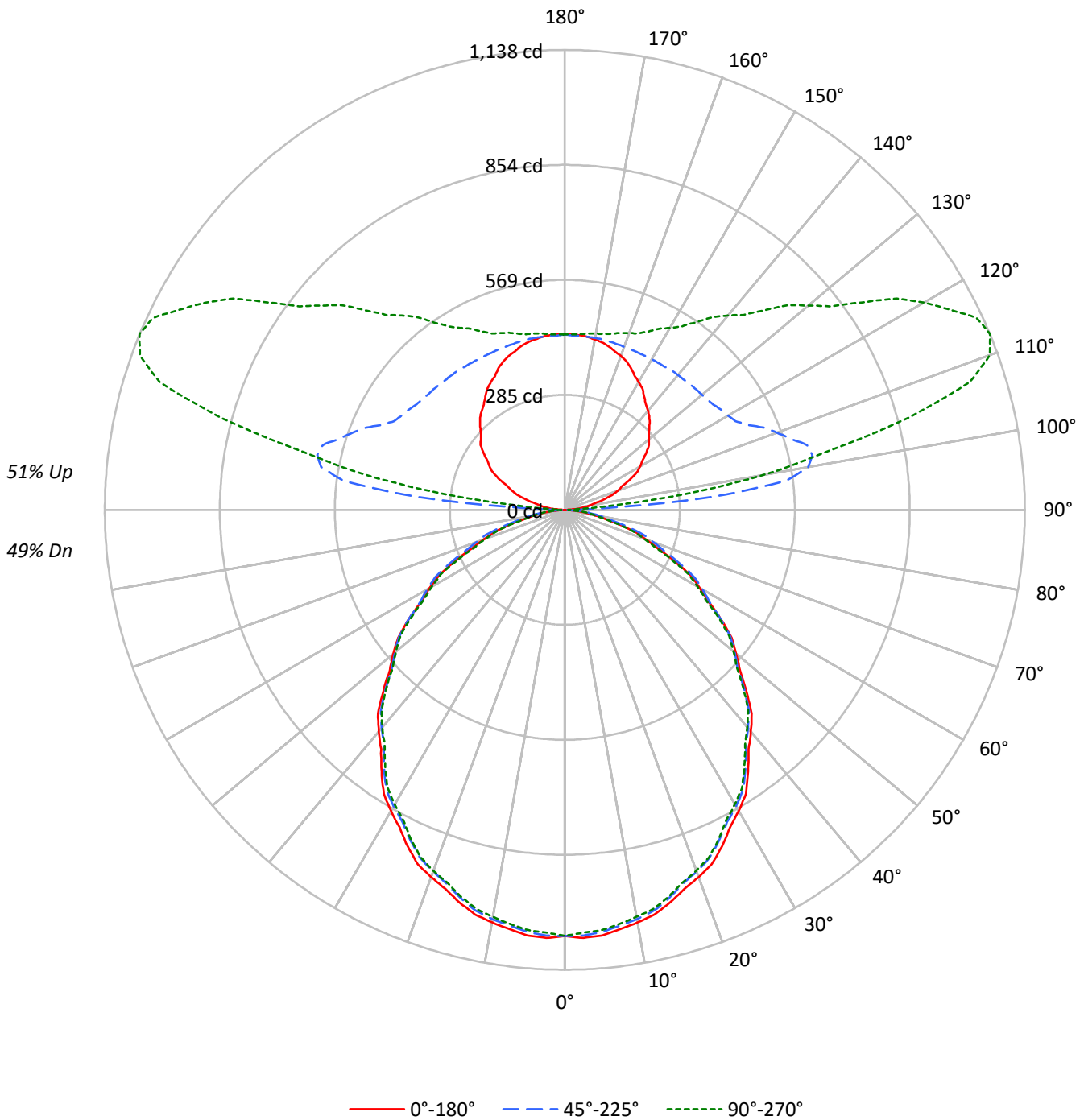
Lumens per Lamp: N/A
Luminaire Lumens: 5509.1 lumens
Efficiency: N/A
Efficacy: 129.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 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: P564738
CATALOG NUMBER: SQ4-PW1-075U-075D-830-1D-UNV-STD-W-4

Luminous Intensity Polar Plot





TEST NUMBER: P564738

CATALOG NUMBER: SQ4-PW1-075U-075D-830-1D-UNV-STD-W-4

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	98	98	98	98	83	83	83	68	68	68	55	55	55	49
1	98	93	89	86	90	86	83	80	73	70	68	60	59	57	49	48	47	41
2	89	82	75	70	82	75	70	66	64	60	56	53	50	48	43	41	39	35
3	81	72	64	59	74	66	60	55	56	51	48	47	43	40	38	36	34	29
4	74	64	56	50	68	59	52	47	50	45	41	42	38	35	34	31	29	25
5	68	57	49	43	63	52	45	40	45	39	35	37	33	30	31	28	25	22
6	63	51	43	37	58	47	40	35	40	35	30	34	30	26	28	25	22	19
7	58	46	38	32	53	43	36	30	37	31	27	31	26	23	25	22	20	17
8	54	42	34	29	50	39	32	27	33	28	24	28	24	21	23	20	18	15
9	50	38	30	25	46	35	29	24	31	25	21	26	22	19	22	18	16	14
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9726	9726	9726
5°	9789	9712	9669
10°	9711	9633	9581
15°	9608	9502	9467
20°	9493	9348	9329
25°	9362	9190	9163
30°	9163	9025	8965
35°	8903	8777	8726
40°	8625	8491	8457
45°	8289	8181	8144
50°	7946	7879	7825
55°	7575	7575	7456
60°	7113	7250	6993
65°	6510	6833	6346
70°	5738	6288	5587
75°	4902	5629	4770
80°	3799	4739	3852
85°	2456	3642	3250



TEST NUMBER: P564738

CATALOG NUMBER: SQ4-PW1-075U-075D-830-1D-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.3	1.8
10°-20°	280.3	5.1
20°-30°	415.7	7.5
30°-40°	486.5	8.8
40°-50°	484.3	8.8
50°-60°	418.2	7.6
60°-70°	301.0	5.5
70°-80°	157.9	2.9
80°-90°	40.2	0.7
90°-100°	204.6	3.7
100°-110°	562.9	10.2
110°-120°	581.0	10.5
120°-130°	465.5	8.4
130°-140°	365.6	6.6
140°-150°	280.2	5.1
150°-160°	201.4	3.7
160°-170°	123.2	2.2
170°-180°	41.5	0.8
0°-30°	795.3	14.4
0°-40°	1281.7	23.3
0°-60°	2184.2	39.6
0°-90°	2683.3	48.7
90°-120°	1348.4	24.5
90°-150°	2459.7	44.6
90°-180°	2826.0	51.3
0°-180°	5509.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1054	1054	1054	1054	1054	
5°	1057	1045	1049	1046	1044	100
15°	1006	993	995	993	991	284
25°	920	904	903	897	900	423
35°	790	780	779	772	775	494
45°	635	630	627	625	624	490
55°	471	470	471	464	464	420
65°	298	307	313	301	291	295
75°	138	150	158	147	134	147
85°	23	30	34	32	31	31
90°	1	4	6	8	8	3
95°	30	112	362	155	99	32
105°	101	155	620	944	881	106
115°	178	217	497	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: P564738

CATALOG NUMBER: SQ4-PW1-075U-075D-830-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1054.2	1054.2	1054.2	1054.2	1054.2
2.5°	1060.2	1051.5	1054.2	1051.9	1046.8
5°	1057.0	1045.2	1048.7	1045.8	1044.0
7.5°	1046.3	1035.4	1037.9	1034.9	1033.8
10°	1036.6	1025.7	1028.2	1024.5	1022.7
12.5°	1025.4	1013.8	1016.3	1012.6	1011.5
15°	1005.9	993.2	994.8	992.9	991.1
17.5°	983.3	970.4	970.6	967.7	967.3
20°	966.9	953.3	952.1	948.4	950.2
22.5°	949.1	934.7	933.5	928.3	930.9
25°	919.6	904.1	902.8	897.3	900.1
27.5°	885.4	870.1	870.1	862.4	865.3
30°	860.1	845.6	847.1	837.9	841.5
32.5°	833.4	820.3	821.1	811.9	815.5
35°	790.5	779.6	779.3	771.9	774.7
37.5°	746.6	737.0	735.5	731.2	731.9
40°	716.1	708.0	705.0	702.2	702.2
42.5°	684.2	676.7	673.8	671.7	671.0
45°	635.3	629.9	627.0	625.1	624.2
47.5°	587.0	581.9	579.4	578.1	577.2
50°	553.6	550.0	548.9	546.1	545.2
52.5°	520.2	518.0	517.0	513.4	512.5
55°	470.9	470.0	470.9	464.4	463.5
57.5°	419.7	421.1	424.1	415.3	413.2
60°	385.5	389.1	392.9	382.6	379.0
62.5°	350.5	356.4	361.7	349.9	344.8
65°	298.2	307.2	313.0	300.7	290.7
67.5°	247.6	258.9	265.8	252.6	241.3
70°	212.7	225.4	233.1	219.8	207.1
72.5°	182.2	196.4	202.7	190.1	177.4
75°	137.5	150.2	157.9	147.4	133.8
77.5°	97.5	109.5	115.9	106.7	95.5
80°	71.5	84.2	89.2	81.5	72.5
82.5°	50.7	61.3	64.6	60.0	53.9
85°	23.2	30.5	34.4	32.5	30.7
87.5°	6.1	11.8	15.4	15.8	16.5
90°	0.9	3.6	6.5	8.3	8.3
92.5°	12.7	54.4	94.3	36.2	29.7
95°	30.5	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	140.3	627.4	766.2	661.9
105°	100.6	154.7	620.2	944.5	881.4
107.5°	123.1	172.6	584.9	1031.9	1050.6
110°	139.4	184.5	558.4	1053.6	1118.6



TEST NUMBER: P564738

CATALOG NUMBER: SQ4-PW1-075U-075D-830-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	154.1	197.8	531.8	1039.6	1138.5
115°	178.1	216.9	497.4	990.5	1124.1
117.5°	201.0	236.7	475.7	921.7	1072.8
120°	215.0	249.3	466.1	870.2	1026.3
122.5°	227.6	261.9	459.4	824.9	973.1
125°	245.5	279.8	451.3	763.4	894.3
127.5°	262.5	295.1	445.9	712.1	826.9
130°	271.3	304.7	443.0	681.6	786.3
132.5°	281.7	315.1	440.8	654.8	749.4
135°	296.3	328.7	438.4	617.4	698.6
137.5°	309.9	340.1	436.3	587.2	654.2
140°	320.2	348.2	435.6	567.1	627.6
142.5°	329.1	354.9	434.1	549.2	601.0
145°	342.4	365.9	431.9	526.1	566.7
147.5°	356.6	376.8	430.8	505.6	538.1
150°	365.5	383.5	430.1	494.3	519.6
152.5°	373.6	390.2	429.3	484.6	505.6
155°	387.6	400.3	429.2	472.8	486.4
157.5°	397.8	408.1	429.2	463.1	472.5
160°	405.2	413.3	429.2	457.9	465.1
162.5°	411.1	417.7	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	430.9	431.9	443.0	443.0
172.5°	431.2	432.4	431.9	440.8	440.0
175°	433.8	434.7	431.9	437.4	436.5
177.5°	434.5	434.5	431.6	435.9	434.5
180°	433.8	433.8	433.8	433.8	433.8

(END OF REPORT)