

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: P563406

Luminaire Tested: **SQ4-PP3-075U-075D-930-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563406
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-PP3-075U-075D-930-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

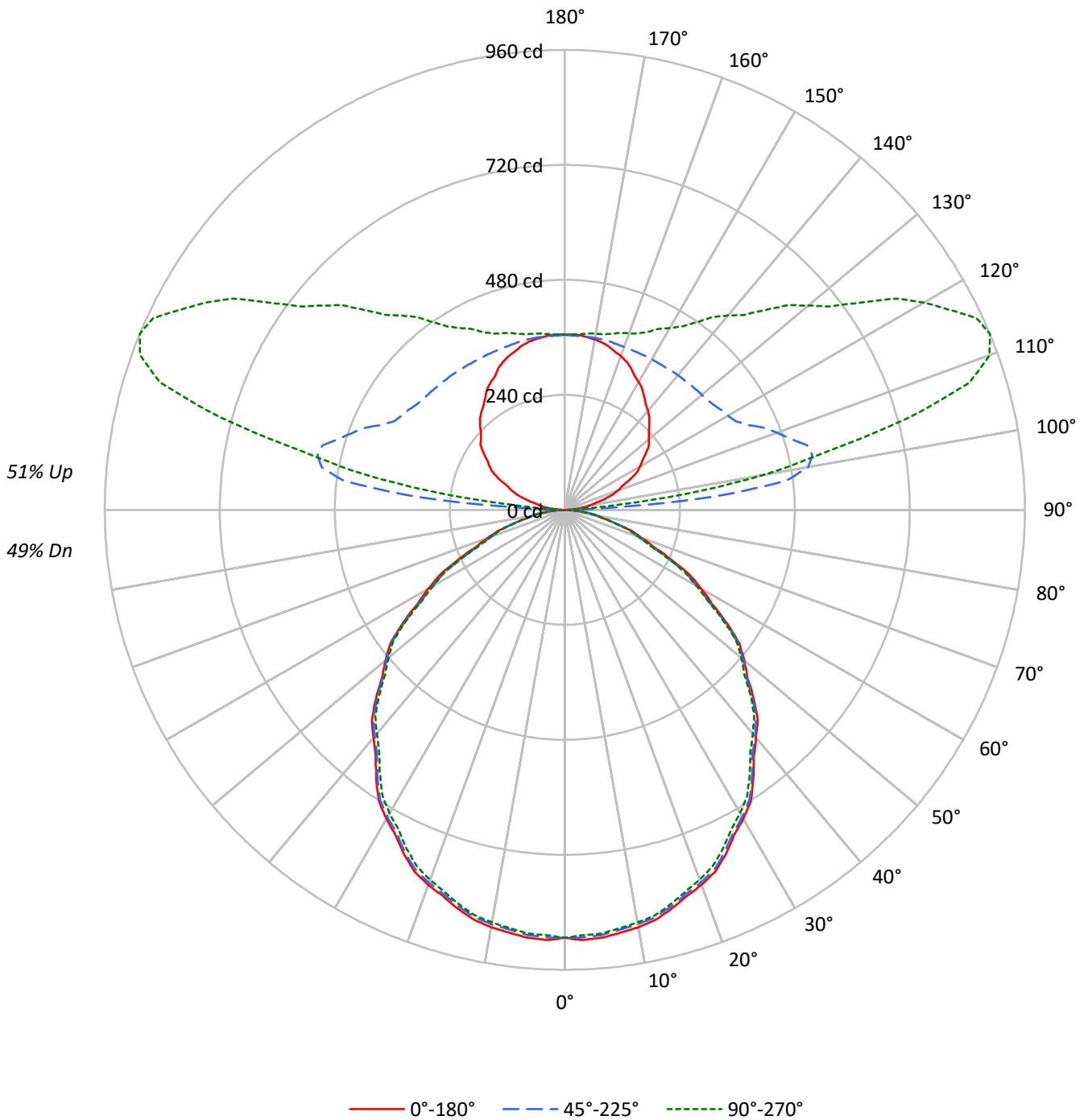
Lumens per Lamp: N/A
Luminaire Lumens: 4669.5 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

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: P563406
CATALOG NUMBER: SQ4-PP3-075U-075D-930-1D-UNV-STD-W-4

Luminous Intensity Polar Plot





TEST NUMBER: P563406

CATALOG NUMBER: SQ4-PP3-075U-075D-930-1D-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	94	90	86	90	86	83	80	73	71	68	61	59	57	49	48	47	42
2	89	82	76	71	82	76	70	66	64	60	57	53	51	48	43	42	40	35
3	81	72	65	59	75	67	60	55	57	52	48	47	44	41	39	36	34	30
4	75	64	56	50	68	59	52	47	50	45	41	42	38	35	35	32	29	26
5	68	57	49	43	63	53	46	40	45	40	35	38	34	30	31	28	26	22
6	63	51	43	37	58	47	40	35	41	35	31	34	30	27	28	25	23	20
7	58	46	38	33	54	43	36	31	37	31	27	31	27	24	26	23	20	18
8	54	42	34	29	50	39	32	27	34	28	24	28	24	21	24	20	18	16
9	50	38	31	26	46	36	29	24	31	25	22	26	22	19	22	19	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°	8242	8242	8242
5°	8302	8251	8222
10°	8288	8229	8193
15°	8234	8189	8144
20°	8179	8133	8071
25°	8081	8026	7945
30°	7932	7890	7790
35°	7724	7671	7574
40°	7477	7430	7346
45°	7273	7222	7150
50°	7012	6967	6900
55°	6650	6561	6511
60°	6052	5879	5851
65°	5333	5111	5093
70°	4605	4413	4413
75°	3964	3907	3850
80°	3496	3533	3454
85°	2731	2985	2985



TEST NUMBER: P563406

CATALOG NUMBER: SQ4-PP3-075U-075D-930-1D-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.5	1.8
10°-20°	241.2	5.2
20°-30°	361.3	7.7
30°-40°	423.7	9.1
40°-50°	425.1	9.1
50°-60°	362.6	7.8
60°-70°	236.5	5.1
70°-80°	118.6	2.5
80°-90°	33.8	0.7
90°-100°	172.5	3.7
100°-110°	474.5	10.2
110°-120°	489.8	10.5
120°-130°	392.4	8.4
130°-140°	308.2	6.6
140°-150°	236.2	5.1
150°-160°	169.8	3.6
160°-170°	103.8	2.2
170°-180°	35.0	0.7
0°-30°	686.9	14.7
0°-40°	1110.6	23.8
0°-60°	1898.3	40.7
0°-90°	2287.2	49.0
90°-120°	1136.8	24.3
90°-150°	2073.6	44.4
90°-180°	2382.0	51.0
0°-180°	4669.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	893	893	893	893	893	
5°	896	888	891	888	888	85
15°	862	854	857	854	853	243
25°	794	785	788	781	780	365
35°	686	679	681	673	672	428
45°	557	554	554	548	548	429
55°	413	412	408	406	405	367
65°	244	240	234	232	233	244
75°	111	111	110	109	108	121
85°	26	28	28	28	28	30
90°	1	3	5	7	7	3
95°	26	94	305	130	83	27
105°	85	130	523	796	743	89
115°	150	183	419	835	948	148
125°	207	236	380	644	754	185
135°	250	277	370	520	589	193
145°	289	308	364	444	478	181
155°	327	337	362	399	410	150
165°	353	358	363	378	380	100
175°	366	366	364	369	368	35
180°	366	366	366	366	366	

TEST NUMBER: P563406

CATALOG NUMBER: SQ4-PP3-075U-075D-930-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	893.3	893.3	893.3	893.3	893.3
2.5°	898.9	891.6	893.3	891.9	888.3
5°	896.4	888.0	890.9	887.8	887.8
7.5°	890.3	881.1	884.0	880.9	880.7
10°	884.7	875.5	878.4	875.3	874.5
12.5°	876.5	867.3	870.9	867.1	867.0
15°	862.0	853.5	857.3	854.1	852.6
17.5°	845.5	836.3	840.8	836.4	835.8
20°	833.0	823.8	828.3	822.0	822.0
22.5°	818.0	808.8	813.9	805.7	805.7
25°	793.8	784.7	788.4	781.3	780.5
27.5°	765.2	756.2	760.0	752.0	751.9
30°	744.5	736.1	740.6	732.0	731.2
32.5°	722.0	714.2	717.4	708.8	708.0
35°	685.8	678.9	681.1	673.3	672.5
37.5°	647.8	640.7	643.2	636.5	636.2
40°	620.8	616.2	616.9	611.4	609.9
42.5°	595.8	590.6	591.2	585.7	585.4
45°	557.4	553.6	553.5	548.0	548.0
47.5°	516.7	513.8	512.9	508.4	508.3
50°	488.5	486.2	485.4	481.5	480.7
52.5°	459.1	458.0	455.3	452.0	451.9
55°	413.4	411.8	407.9	405.5	404.8
57.5°	363.7	360.7	356.2	352.8	353.4
60°	328.0	325.0	318.6	317.1	317.1
62.5°	293.6	289.9	283.6	281.4	282.6
65°	244.3	239.7	234.1	232.5	233.3
67.5°	199.5	195.3	189.3	189.3	188.7
70°	170.7	168.4	163.6	163.6	163.6
72.5°	145.0	143.9	140.4	140.4	139.8
75°	111.2	111.2	109.6	108.8	108.0
77.5°	83.3	83.6	82.8	82.0	80.6
80°	65.8	67.3	66.5	65.7	65.0
82.5°	49.5	51.0	50.9	49.5	49.3
85°	25.8	28.1	28.2	28.2	28.2
87.5°	7.0	10.0	11.1	11.4	12.0
90°	0.8	3.1	5.4	7.0	7.0
92.5°	10.7	45.9	79.5	30.5	25.1
95°	25.7	94.1	305.0	130.4	83.3
97.5°	41.9	104.4	465.4	358.6	253.0
100°	53.7	110.7	515.9	520.7	424.8
102.5°	64.9	118.3	528.9	646.0	558.0
105°	84.8	130.5	522.9	796.3	743.0
107.5°	103.8	145.5	493.1	869.9	885.7
110°	117.5	155.5	470.7	888.2	943.0

TEST NUMBER: P563406

CATALOG NUMBER: SQ4-PP3-075U-075D-930-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	129.9	166.8	448.3	876.4	959.8
115°	150.2	182.9	419.4	835.1	947.7
117.5°	169.5	199.6	401.0	777.1	904.4
120°	181.3	210.2	392.9	733.6	865.2
122.5°	191.9	220.8	387.3	695.5	820.4
125°	207.0	235.9	380.5	643.6	753.9
127.5°	221.3	248.8	376.0	600.4	697.1
130°	228.8	256.9	373.5	574.7	662.9
132.5°	237.5	265.6	371.6	552.1	631.8
135°	249.8	277.1	369.6	520.5	589.0
137.5°	261.3	286.7	367.9	495.0	551.5
140°	270.0	293.6	367.2	478.1	529.1
142.5°	277.5	299.2	366.0	463.0	506.7
145°	288.7	308.4	364.1	443.5	477.7
147.5°	300.6	317.7	363.2	426.2	453.6
150°	308.1	323.3	362.6	416.7	438.0
152.5°	315.0	329.0	362.0	408.6	426.2
155°	326.8	337.4	361.8	398.6	410.0
157.5°	335.3	344.0	361.8	390.5	398.4
160°	341.6	348.4	361.8	386.1	392.1
162.5°	346.5	352.2	362.4	382.3	387.2
165°	353.2	357.8	363.4	378.2	380.5
167.5°	357.9	361.4	364.1	374.7	375.3
170°	361.0	363.3	364.1	373.5	373.5
172.5°	363.5	364.6	364.1	371.6	371.0
175°	365.7	366.4	364.1	368.8	368.0
177.5°	366.3	366.3	363.8	367.5	366.3
180°	365.7	365.7	365.7	365.7	365.7

(END OF REPORT)