

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: P563376

Luminaire Tested: **SQ4-PP3-075U-050D-835-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563376
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-050D-835-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

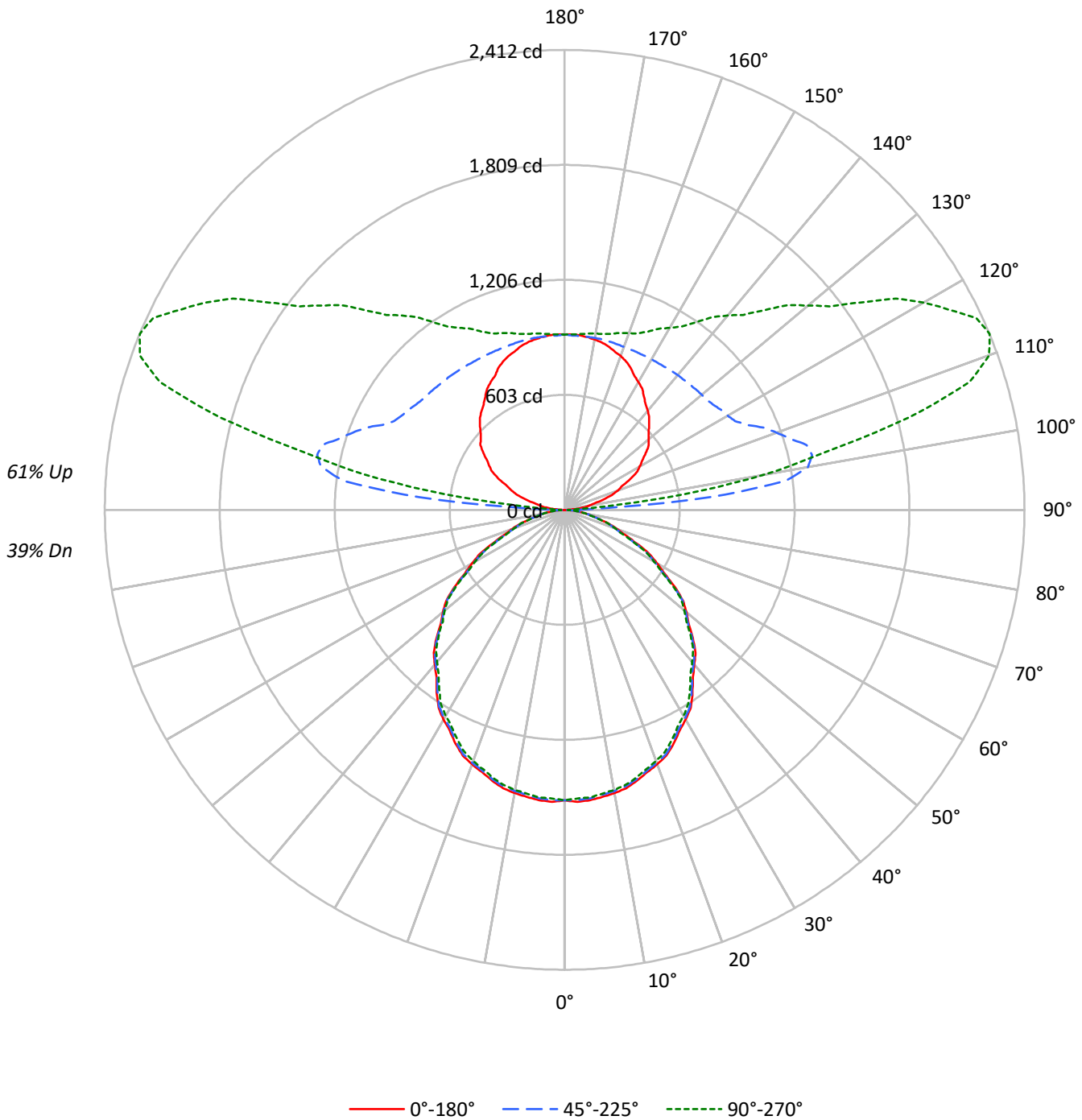
Lumens per Lamp: N/A
Luminaire Lumens: 9888.6 lumens
Efficiency: N/A
Efficacy: 137.7 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 71.8
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: P563376
CATALOG NUMBER: SQ4-PP3-075U-050D-835-1D-UNV-STD-W-8

Luminous Intensity Polar Plot





TEST NUMBER: P563376

CATALOG NUMBER: SQ4-PP3-075U-050D-835-1D-UNV-STD-W-8

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	105	105	105	105	95	95	95	95	77	77	77	61	61	61	46	46	46	39
1	96	91	88	84	87	83	80	77	68	66	64	54	53	51	41	40	40	34
2	87	80	74	69	79	73	68	64	60	56	53	48	45	43	36	35	33	28
3	80	70	63	58	72	64	58	53	53	48	45	42	39	37	32	30	29	24
4	73	62	55	49	66	57	50	45	47	42	38	38	34	31	29	27	25	21
5	67	55	47	42	60	51	44	39	42	37	33	34	30	27	26	24	22	18
6	61	50	42	36	56	46	39	34	38	33	29	30	27	24	24	21	19	16
7	57	45	37	32	51	41	34	29	34	29	25	28	24	21	22	19	17	14
8	53	41	33	28	48	37	31	26	31	26	22	25	21	19	20	17	15	13
9	49	37	30	25	44	34	28	23	28	23	20	23	19	17	18	16	14	11
10	46	34	27	22	42	31	25	21	26	21	18	21	18	15	17	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7027	7027	7027
5°	7079	7035	7010
10°	7067	7017	6985
15°	7020	6981	6943
20°	6973	6934	6882
25°	6890	6843	6775
30°	6763	6727	6642
35°	6586	6541	6458
40°	6375	6335	6263
45°	6201	6158	6097
50°	5978	5940	5883
55°	5669	5594	5551
60°	5161	5014	4989
65°	4546	4357	4342
70°	3925	3763	3763
75°	3379	3331	3283
80°	2978	3015	2943
85°	2334	2546	2546



TEST NUMBER: P563376

CATALOG NUMBER: SQ4-PP3-075U-050D-835-1D-UNV-STD-W-8

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.0	1.5
10°-20°	411.3	4.2
20°-30°	616.0	6.2
30°-40°	722.6	7.3
40°-50°	724.8	7.3
50°-60°	618.3	6.3
60°-70°	403.3	4.1
70°-80°	202.3	2.0
80°-90°	58.3	0.6
90°-100°	433.5	4.4
100°-110°	1192.6	12.1
110°-120°	1231.0	12.4
120°-130°	986.3	10.0
130°-140°	774.7	7.8
140°-150°	593.7	6.0
150°-160°	426.8	4.3
160°-170°	261.0	2.6
170°-180°	88.0	0.9
0°-30°	1171.3	11.8
0°-40°	1893.9	19.2
0°-60°	3237.1	32.7
0°-90°	3901.0	39.4
90°-120°	2857.1	28.9
90°-150°	5211.7	52.7
90°-180°	5988.0	60.6
0°-180°	9888.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1523	1523	1523	1523	1523	
5°	1529	1514	1519	1514	1514	145
15°	1470	1456	1462	1456	1454	415
25°	1354	1338	1344	1332	1331	622
35°	1170	1158	1162	1148	1147	731
45°	950	944	944	934	934	732
55°	705	702	696	692	690	626
65°	416	409	399	396	398	416
75°	190	190	187	186	184	206
85°	44	48	48	48	48	52
90°	2	8	14	18	18	6
95°	64	237	767	328	209	68
105°	213	328	1314	2001	1868	225
115°	377	460	1054	2099	2382	372
125°	520	593	956	1618	1895	464
135°	628	697	929	1308	1480	484
145°	726	775	915	1115	1201	455
155°	821	848	909	1002	1031	377
165°	888	899	913	950	956	250
175°	919	921	915	927	925	87
180°	919	919	919	919	919	

TEST NUMBER: P563376

CATALOG NUMBER: SQ4-PP3-075U-050D-835-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1523.3	1523.3	1523.3	1523.3	1523.3
2.5°	1532.9	1520.3	1523.3	1521.0	1514.7
5°	1528.6	1514.2	1519.2	1513.9	1513.9
7.5°	1518.2	1502.5	1507.5	1502.2	1501.9
10°	1508.6	1492.9	1497.9	1492.5	1491.2
12.5°	1494.7	1479.0	1485.1	1478.7	1478.4
15°	1469.9	1455.5	1461.8	1456.4	1453.8
17.5°	1441.8	1426.2	1433.8	1426.3	1425.3
20°	1420.5	1404.8	1412.4	1401.8	1401.8
22.5°	1394.8	1379.2	1387.9	1374.0	1374.0
25°	1353.7	1338.0	1344.4	1332.3	1331.0
27.5°	1304.8	1289.4	1296.0	1282.4	1282.1
30°	1269.6	1255.2	1262.9	1248.2	1246.9
32.5°	1231.2	1217.8	1223.4	1208.7	1207.4
35°	1169.5	1157.7	1161.5	1148.1	1146.8
37.5°	1104.6	1092.6	1096.8	1085.4	1084.8
40°	1058.7	1050.8	1052.0	1042.6	1040.0
42.5°	1015.9	1007.1	1008.2	998.8	998.3
45°	950.5	944.0	943.9	934.5	934.5
47.5°	881.1	876.1	874.7	867.0	866.7
50°	833.0	829.1	827.7	821.0	819.7
52.5°	782.9	781.0	776.4	770.8	770.6
55°	704.9	702.3	695.5	691.5	690.2
57.5°	620.2	615.0	607.4	601.6	602.6
60°	559.4	554.2	543.4	540.7	540.7
62.5°	500.6	494.4	483.5	479.9	481.9
65°	416.5	408.7	399.2	396.5	397.8
67.5°	340.2	333.1	322.8	322.8	321.7
70°	291.0	287.1	279.0	279.0	279.0
72.5°	247.2	245.4	239.5	239.5	238.4
75°	189.6	189.6	186.9	185.5	184.2
77.5°	142.0	142.6	141.2	139.9	137.5
80°	112.1	114.8	113.5	112.1	110.8
82.5°	84.4	87.0	86.8	84.4	84.1
85°	44.1	48.0	48.1	48.1	48.1
87.5°	12.1	17.5	19.8	20.6	21.7
90°	2.0	7.7	13.7	17.6	17.6
92.5°	27.0	115.3	199.9	76.7	63.0
95°	64.5	236.6	766.6	327.8	209.2
97.5°	105.2	262.4	1169.8	901.3	635.9
100°	134.9	278.3	1296.5	1308.6	1067.7
102.5°	163.1	297.3	1329.4	1623.5	1402.5
105°	213.2	327.9	1314.1	2001.4	1867.5
107.5°	260.9	365.6	1239.4	2186.4	2226.2
110°	295.3	390.9	1183.1	2232.4	2370.1



TEST NUMBER: P563376

CATALOG NUMBER: SQ4-PP3-075U-050D-835-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	326.6	419.1	1126.8	2202.8	2412.3
115°	377.4	459.6	1054.0	2098.8	2381.8
117.5°	425.9	501.6	1007.9	1953.0	2273.1
120°	455.6	528.3	987.5	1843.8	2174.6
122.5°	482.2	554.9	973.5	1747.9	2061.9
125°	520.2	592.8	956.3	1617.7	1894.9
127.5°	556.2	625.4	944.9	1508.9	1752.2
130°	574.9	645.7	938.7	1444.3	1666.1
132.5°	596.8	667.6	934.0	1387.5	1587.9
135°	627.7	696.6	928.9	1308.3	1480.3
137.5°	656.7	720.5	924.6	1244.2	1386.1
140°	678.6	737.8	923.0	1201.7	1329.8
142.5°	697.3	752.0	919.9	1163.7	1273.4
145°	725.5	775.2	915.2	1114.7	1200.7
147.5°	755.6	798.4	912.8	1071.2	1140.1
150°	774.4	812.6	911.3	1047.4	1101.0
152.5°	791.6	826.8	909.7	1026.9	1071.2
155°	821.3	848.1	909.3	1001.9	1030.6
157.5°	842.8	864.6	909.3	981.3	1001.2
160°	858.5	875.7	909.3	970.3	985.6
162.5°	871.0	885.1	910.9	960.8	973.1
165°	887.8	899.3	913.2	950.5	956.3
167.5°	899.5	908.3	915.2	941.8	943.3
170°	907.4	913.1	915.2	938.7	938.7
172.5°	913.6	916.3	915.2	933.9	932.4
175°	919.1	921.0	915.2	926.9	925.0
177.5°	920.7	920.7	914.4	923.7	920.7
180°	919.1	919.1	919.1	919.1	919.1

(END OF REPORT)