

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: P563188

Luminaire Tested: **SQ4-PP3-025U-050D-840-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563188
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-050D-840-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

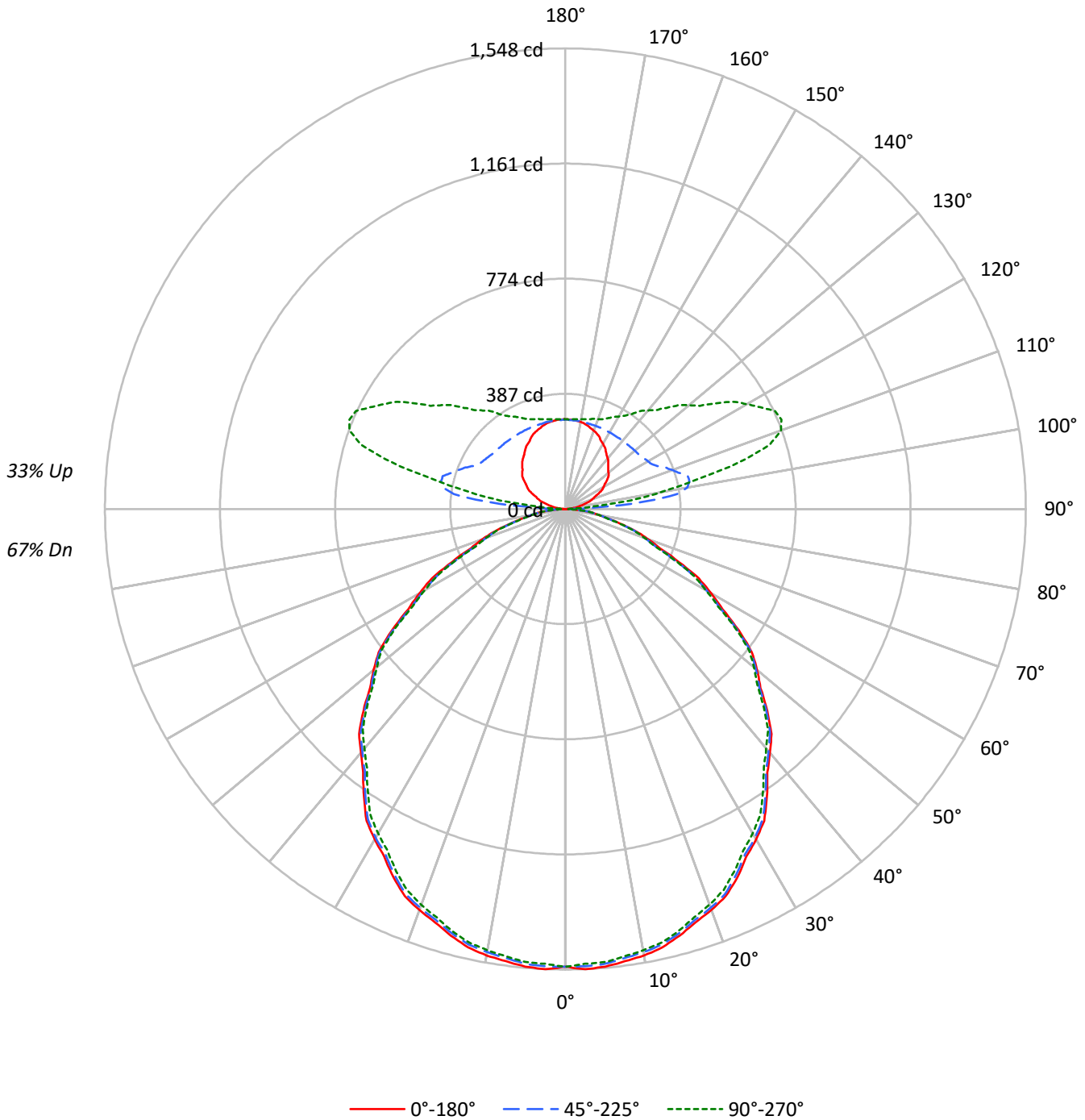
Lumens per Lamp: N/A
Luminaire Lumens: 5890.8 lumens
Efficiency: N/A
Efficacy: 128.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 45.7
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: P563188
CATALOG NUMBER: SQ4-PP3-025U-050D-840-1D-UNV-STD-W-8

Luminous Intensity Polar Plot





TEST NUMBER: P563188

CATALOG NUMBER: SQ4-PP3-025U-050D-840-1D-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	111	111	111	111	105	105	105	105	93	93	93	82	82	82	72	72	72	67
1	102	98	94	90	96	92	89	86	82	79	77	72	71	69	64	62	61	57
2	93	85	79	74	87	81	75	71	72	68	64	64	61	58	56	54	52	48
3	85	75	68	62	80	71	65	59	64	58	54	57	53	49	50	47	44	41
4	78	67	59	53	73	63	56	51	57	51	46	51	46	42	45	41	38	35
5	72	60	51	45	67	57	49	44	51	45	40	46	41	37	41	37	33	31
6	66	54	45	39	62	51	43	38	46	40	35	41	36	32	37	33	30	27
7	61	49	40	35	57	46	39	34	42	36	31	38	32	29	34	29	26	24
8	57	44	36	31	53	42	35	30	38	32	28	34	29	26	31	27	24	21
9	53	40	33	28	50	39	32	27	35	29	25	32	27	23	29	24	21	19
10	50	37	30	25	47	36	29	24	32	27	23	29	24	21	26	22	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7098	7098	7098
5°	7150	7106	7081
10°	7137	7087	7055
15°	7090	7052	7013
20°	7044	7004	6951
25°	6960	6912	6843
30°	6831	6795	6709
35°	6652	6607	6523
40°	6439	6399	6325
45°	6264	6220	6158
50°	6038	6000	5942
55°	5726	5650	5607
60°	5213	5063	5038
65°	4592	4401	4386
70°	3965	3801	3801
75°	3413	3365	3317
80°	3010	3044	2973
85°	2355	2567	2567



TEST NUMBER: P563188

CATALOG NUMBER: SQ4-PP3-025U-050D-840-1D-UNV-STD-W-8

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.5	2.5
10°-20°	415.4	7.1
20°-30°	622.2	10.6
30°-40°	729.9	12.4
40°-50°	732.1	12.4
50°-60°	624.6	10.6
60°-70°	407.3	6.9
70°-80°	204.4	3.5
80°-90°	58.2	1.0
90°-100°	146.7	2.5
100°-110°	385.7	6.5
110°-120°	400.0	6.8
120°-130°	320.8	5.4
130°-140°	251.7	4.3
140°-150°	193.2	3.3
150°-160°	139.2	2.4
160°-170°	85.1	1.4
170°-180°	28.8	0.5
0°-30°	1183.1	20.1
0°-40°	1913.0	32.5
0°-60°	3269.7	55.5
0°-90°	3939.5	66.9
90°-120°	932.4	15.8
90°-150°	1698.2	28.8
90°-180°	1951.0	33.1
0°-180°	5890.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1539	1539	1539	1539	1539	
5°	1544	1530	1534	1529	1529	147
15°	1485	1470	1477	1471	1468	419
25°	1367	1352	1358	1346	1344	629
35°	1181	1169	1173	1160	1158	738
45°	960	954	953	944	944	739
55°	712	709	702	698	697	633
65°	421	413	403	400	402	420
75°	192	192	189	187	186	208
85°	44	48	48	48	48	52
90°	2	6	15	8	8	3
95°	19	76	253	130	89	22
105°	70	105	426	647	604	74
115°	124	150	342	682	778	122
125°	172	192	311	525	620	152
135°	205	225	301	424	480	158
145°	237	252	297	362	390	149
155°	268	276	297	326	336	123
165°	290	293	297	309	313	82
175°	301	301	299	303	303	29
180°	301	301	301	301	301	

TEST NUMBER: P563188

CATALOG NUMBER: SQ4-PP3-025U-050D-840-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1538.6	1538.6	1538.6	1538.6	1538.6
2.5°	1548.3	1535.6	1538.6	1536.3	1530.0
5°	1544.0	1529.5	1534.5	1529.1	1529.1
7.5°	1533.5	1517.6	1522.7	1517.3	1517.0
10°	1523.7	1507.9	1513.0	1507.5	1506.2
12.5°	1509.7	1493.9	1500.0	1493.5	1493.3
15°	1484.6	1470.1	1476.6	1471.1	1468.5
17.5°	1456.3	1440.5	1448.2	1440.7	1439.6
20°	1434.8	1418.9	1426.7	1415.9	1415.9
22.5°	1408.9	1393.0	1401.8	1387.8	1387.8
25°	1367.3	1351.5	1357.9	1345.7	1344.4
27.5°	1318.0	1302.4	1309.1	1295.3	1295.1
30°	1282.4	1267.9	1275.6	1260.8	1259.5
32.5°	1243.5	1230.1	1235.7	1220.9	1219.5
35°	1181.2	1169.4	1173.2	1159.6	1158.3
37.5°	1115.7	1103.6	1107.9	1096.3	1095.7
40°	1069.3	1061.4	1062.6	1053.1	1050.4
42.5°	1026.2	1017.2	1018.3	1008.9	1008.4
45°	960.1	953.5	953.4	943.9	943.9
47.5°	890.0	885.0	883.5	875.7	875.4
50°	841.4	837.5	836.0	829.3	827.9
52.5°	790.7	788.9	784.3	778.6	778.3
55°	712.0	709.3	702.5	698.5	697.1
57.5°	626.5	621.2	613.5	607.6	608.7
60°	565.0	559.7	548.8	546.1	546.1
62.5°	505.7	499.3	488.4	484.7	486.8
65°	420.7	412.8	403.2	400.5	401.8
67.5°	343.6	336.5	326.1	326.0	325.0
70°	294.0	290.0	281.8	281.8	281.8
72.5°	249.7	247.9	241.9	241.9	240.8
75°	191.5	191.5	188.8	187.4	186.1
77.5°	143.5	144.0	142.7	141.3	138.9
80°	113.3	115.9	114.6	113.2	111.9
82.5°	85.2	87.9	87.6	85.2	85.0
85°	44.5	48.5	48.5	48.5	48.5
87.5°	12.3	17.2	20.3	18.8	19.9
90°	1.9	5.7	15.4	7.7	7.7
92.5°	8.1	39.1	86.5	38.3	24.7
95°	19.3	75.9	252.8	130.3	88.8
97.5°	33.6	83.4	378.2	300.8	221.5
100°	44.4	89.7	416.8	422.4	328.1
102.5°	53.6	95.9	427.6	526.2	445.4
105°	69.5	105.3	426.5	647.4	604.0
107.5°	85.7	118.9	402.2	710.4	721.0
110°	96.5	126.7	382.1	726.6	771.9



TEST NUMBER: P563188

CATALOG NUMBER: SQ4-PP3-025U-050D-840-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	107.3	136.0	363.6	716.4	785.8
115°	123.5	149.9	341.6	681.5	777.7
117.5°	139.3	163.5	326.5	633.1	739.9
120°	148.6	171.2	320.3	600.6	704.4
122.5°	157.9	180.5	315.7	568.1	670.4
125°	171.8	192.5	310.7	525.1	619.5
127.5°	182.9	204.1	306.5	490.4	570.1
130°	189.1	211.8	304.9	468.7	542.3
132.5°	195.3	217.9	303.4	450.0	516.0
135°	204.6	225.3	301.0	423.9	480.5
137.5°	214.2	234.6	300.7	404.4	450.8
140°	221.9	240.8	299.1	388.9	432.3
142.5°	228.1	245.5	299.1	377.9	415.3
145°	237.4	252.5	297.2	361.5	389.8
147.5°	246.6	261.3	297.2	347.9	371.3
150°	252.8	266.0	297.2	340.1	358.9
152.5°	259.0	269.2	297.2	333.8	348.1
155°	268.2	275.8	297.2	326.4	335.8
157.5°	275.2	282.4	297.2	319.7	326.5
160°	279.8	285.5	297.2	316.6	320.3
162.5°	284.5	288.6	297.2	313.5	317.3
165°	289.5	293.2	297.2	308.9	312.6
167.5°	294.1	296.0	299.1	306.9	308.4
170°	297.2	299.1	299.1	306.8	306.8
172.5°	298.7	299.1	299.1	305.3	303.8
175°	301.0	301.0	299.1	303.0	303.0
177.5°	301.0	301.0	299.5	302.6	301.0
180°	301.0	301.0	301.0	301.0	301.0

(END OF REPORT)