

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: P563202

Luminaire Tested: **SQ4-PP3-025U-075D-830-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563202
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-075D-830-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

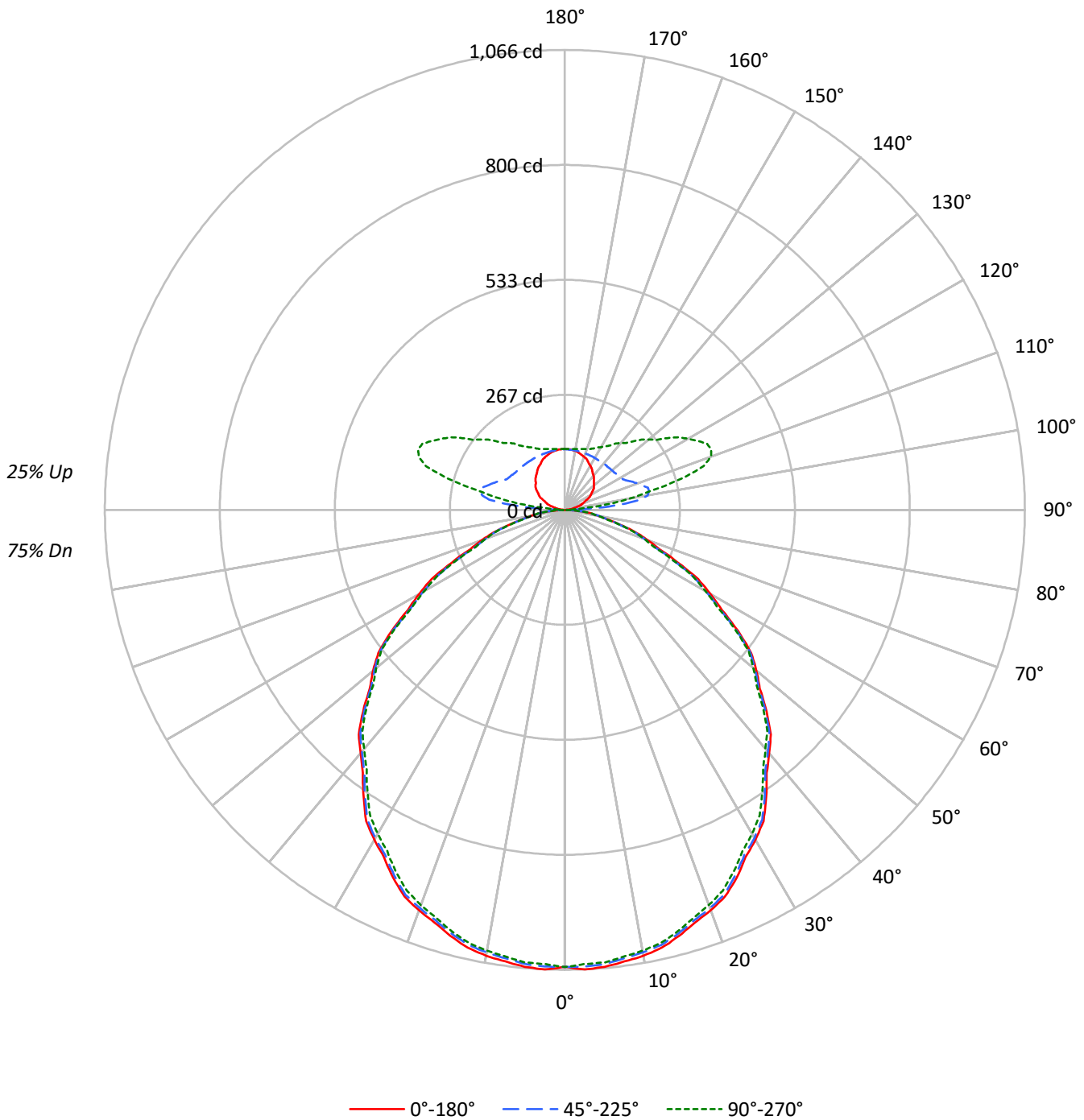
Lumens per Lamp: N/A
Luminaire Lumens: 3624.4 lumens
Efficiency: N/A
Efficacy: 121.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 29.9
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: P563202
CATALOG NUMBER: SQ4-PP3-025U-075D-830-1D-UNV-STD-W-4

Luminous Intensity Polar Plot





TEST NUMBER: P563202

CATALOG NUMBER: SQ4-PP3-025U-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	113	113	113	113	108	108	108	108	97	97	97	88	88	88	79	79	79	75
1	104	99	95	92	98	95	91	88	86	83	81	78	76	74	70	69	67	64
2	95	87	81	76	90	83	77	73	76	71	67	69	65	62	62	60	57	54
3	87	77	69	63	82	73	67	61	67	61	57	61	57	53	55	52	49	46
4	79	68	60	54	75	65	58	52	60	54	49	54	49	45	50	46	42	39
5	73	61	53	46	69	58	51	45	54	47	42	49	44	40	45	40	37	34
6	67	55	46	40	64	53	45	39	48	42	37	44	39	35	41	36	33	30
7	62	50	41	36	59	48	40	35	44	37	33	40	35	31	37	33	29	27
8	58	45	37	32	55	44	36	31	40	34	29	37	32	28	34	29	26	24
9	54	41	34	28	51	40	33	28	37	31	26	34	29	25	32	27	24	22
10	51	38	31	26	48	37	30	25	34	28	24	32	26	23	29	25	21	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9776	9776	9776
5°	9848	9787	9753
10°	9831	9761	9718
15°	9766	9712	9660
20°	9701	9646	9574
25°	9585	9519	9425
30°	9408	9359	9240
35°	9163	9099	8985
40°	8869	8814	8713
45°	8627	8566	8481
50°	8318	8263	8184
55°	7887	7782	7723
60°	7180	6975	6940
65°	6324	6062	6041
70°	5460	5236	5236
75°	4702	4634	4570
80°	4144	4192	4096
85°	3239	3536	3536



TEST NUMBER: P563202

CATALOG NUMBER: SQ4-PP3-025U-075D-830-1D-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.2	2.8
10°-20°	286.1	7.9
20°-30°	428.5	11.8
30°-40°	502.6	13.9
40°-50°	504.2	13.9
50°-60°	430.1	11.9
60°-70°	280.5	7.7
70°-80°	140.7	3.9
80°-90°	39.7	1.1
90°-100°	68.6	1.9
100°-110°	180.2	5.0
110°-120°	186.9	5.2
120°-130°	149.9	4.1
130°-140°	117.6	3.2
140°-150°	90.3	2.5
150°-160°	65.0	1.8
160°-170°	39.8	1.1
170°-180°	13.4	0.4
0°-30°	814.8	22.5
0°-40°	1317.4	36.3
0°-60°	2251.7	62.1
0°-90°	2712.6	74.8
90°-120°	435.7	12.0
90°-150°	793.5	21.9
90°-180°	912.0	25.2
0°-180°	3624.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1060	1060	1060	1060	1060	
5°	1063	1053	1057	1053	1053	101
15°	1022	1012	1017	1013	1011	288
25°	942	931	935	927	926	433
35°	814	805	808	799	798	508
45°	661	657	656	650	650	509
55°	490	488	484	481	480	436
65°	290	284	278	276	277	289
75°	132	132	130	129	128	143
85°	31	33	33	33	33	36
90°	1	3	7	4	4	2
95°	9	36	118	61	42	10
105°	32	49	199	302	282	34
115°	58	70	160	318	363	57
125°	80	90	145	245	289	71
135°	96	105	141	198	224	74
145°	111	118	139	169	182	69
155°	125	129	139	152	157	58
165°	135	137	139	144	146	38
175°	141	141	140	142	142	13
180°	141	141	141	141	141	

TEST NUMBER: P563202

CATALOG NUMBER: SQ4-PP3-025U-075D-830-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1059.6	1059.6	1059.6	1059.6	1059.6
2.5°	1066.3	1057.5	1059.6	1058.0	1053.6
5°	1063.3	1053.3	1056.8	1053.1	1053.1
7.5°	1056.0	1045.1	1048.6	1044.9	1044.7
10°	1049.4	1038.5	1041.9	1038.2	1037.3
12.5°	1039.7	1028.8	1033.0	1028.5	1028.4
15°	1022.4	1012.4	1016.8	1013.1	1011.3
17.5°	1002.9	992.0	997.3	992.1	991.4
20°	988.1	977.2	982.5	975.1	975.1
22.5°	970.2	959.3	965.4	955.7	955.7
25°	941.6	930.7	935.1	926.8	925.8
27.5°	907.6	896.9	901.5	892.0	891.9
30°	883.1	873.1	878.5	868.2	867.3
32.5°	856.4	847.1	851.0	840.8	839.9
35°	813.5	805.3	807.9	798.6	797.7
37.5°	768.3	760.0	763.0	755.0	754.6
40°	736.4	731.0	731.8	725.2	723.4
42.5°	706.7	700.5	701.3	694.8	694.4
45°	661.2	656.6	656.5	650.0	650.0
47.5°	612.9	609.4	608.4	603.0	602.9
50°	579.5	576.7	575.7	571.1	570.2
52.5°	544.5	543.3	540.1	536.2	536.0
55°	490.3	488.5	483.8	481.0	480.1
57.5°	431.4	427.8	422.5	418.5	419.2
60°	389.1	385.5	378.0	376.1	376.1
62.5°	348.2	343.9	336.3	333.8	335.2
65°	289.7	284.3	277.7	275.8	276.7
67.5°	236.6	231.7	224.5	224.5	223.8
70°	202.4	199.7	194.1	194.1	194.1
72.5°	172.0	170.7	166.6	166.6	165.9
75°	131.9	131.9	130.0	129.1	128.2
77.5°	98.8	99.2	98.2	97.3	95.6
80°	78.0	79.8	78.9	78.0	77.1
82.5°	58.7	60.5	60.4	58.7	58.5
85°	30.6	33.4	33.4	33.4	33.4
87.5°	8.4	11.6	13.3	12.6	13.4
90°	0.9	2.7	7.2	3.6	3.6
92.5°	3.8	18.2	40.4	17.9	11.5
95°	9.0	35.5	118.1	60.9	41.5
97.5°	15.7	39.0	176.7	140.5	103.5
100°	20.7	41.9	194.8	197.4	153.3
102.5°	25.1	44.8	199.8	245.8	208.1
105°	32.5	49.2	199.3	302.5	282.2
107.5°	40.0	55.6	187.9	331.9	336.9
110°	45.1	59.2	178.5	339.5	360.7



TEST NUMBER: P563202

CATALOG NUMBER: SQ4-PP3-025U-075D-830-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	50.1	63.5	169.9	334.7	367.2
115°	57.7	70.1	159.6	318.4	363.4
117.5°	65.1	76.4	152.6	295.8	345.7
120°	69.4	80.0	149.7	280.6	329.1
122.5°	73.8	84.3	147.5	265.5	313.2
125°	80.3	89.9	145.2	245.4	289.4
127.5°	85.5	95.4	143.2	229.2	266.4
130°	88.4	98.9	142.5	219.0	253.4
132.5°	91.3	101.8	141.7	210.3	241.1
135°	95.6	105.3	140.7	198.1	224.5
137.5°	100.1	109.6	140.5	188.9	210.6
140°	103.7	112.5	139.8	181.7	202.0
142.5°	106.6	114.7	139.8	176.6	194.0
145°	110.9	118.0	138.9	168.9	182.1
147.5°	115.2	122.1	138.9	162.6	173.5
150°	118.1	124.3	138.9	158.9	167.7
152.5°	121.0	125.8	138.9	156.0	162.7
155°	125.3	128.9	138.9	152.5	156.9
157.5°	128.6	131.9	138.9	149.4	152.6
160°	130.7	133.4	138.9	147.9	149.7
162.5°	132.9	134.8	138.9	146.5	148.2
165°	135.3	137.0	138.9	144.3	146.1
167.5°	137.4	138.3	139.8	143.4	144.1
170°	138.9	139.7	139.8	143.4	143.4
172.5°	139.6	139.8	139.8	142.6	141.9
175°	140.7	140.7	139.8	141.6	141.6
177.5°	140.7	140.7	139.9	141.4	140.7
180°	140.7	140.7	140.7	140.7	140.7

(END OF REPORT)