

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: P562530

Luminaire Tested: **SQ4-PC3-025U-075D-830-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562530
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, G2-2106-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PC3-025U-075D-830-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

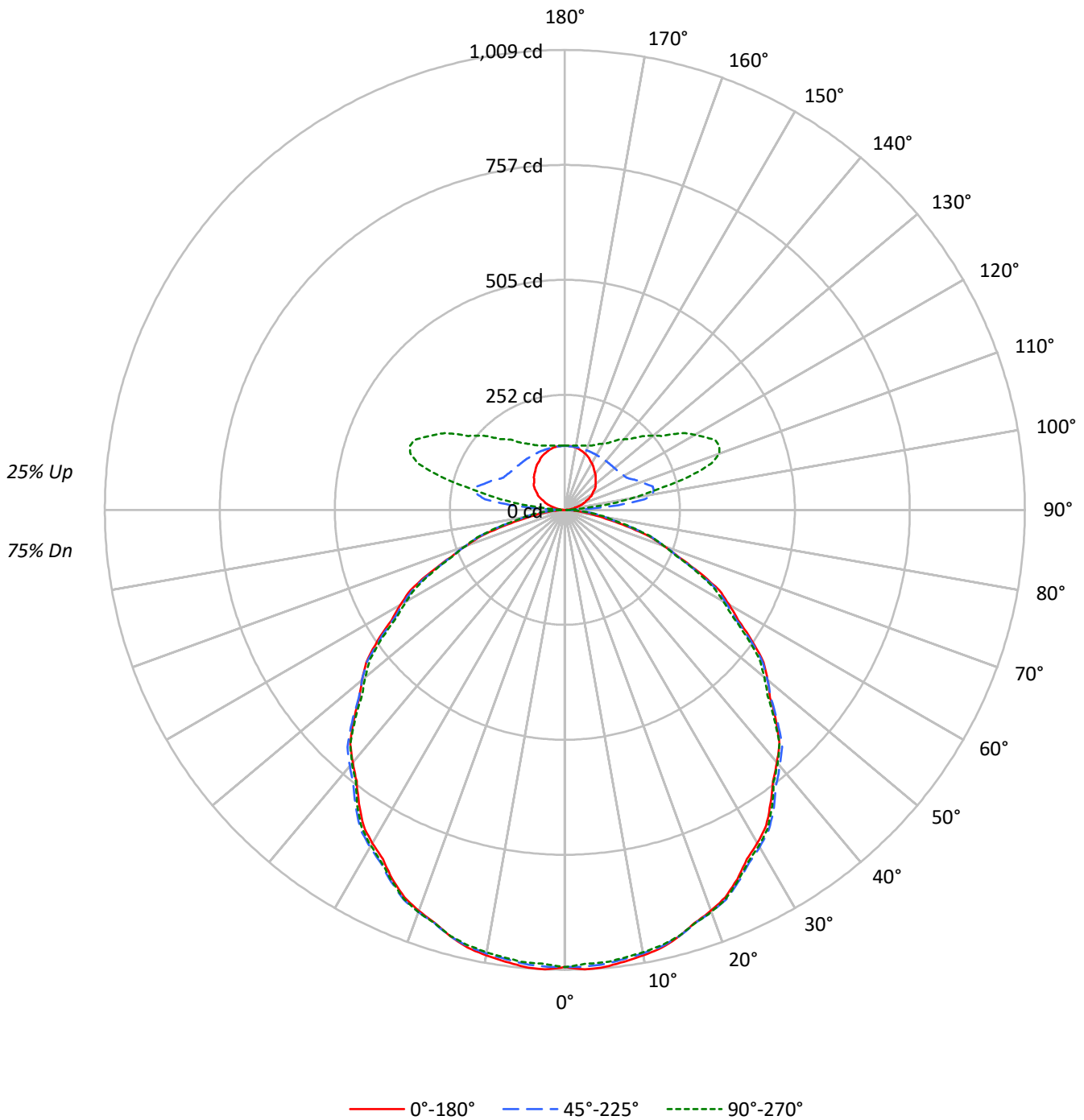
Lumens per Lamp: N/A
Luminaire Lumens: 3650.3 lumens
Efficiency: N/A
Efficacy: 122.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

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



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Luminous Intensity Polar Plot





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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	103	99	95	91	98	94	91	88	86	83	80	78	75	73	70	69	67	63
2	94	87	80	75	89	83	77	72	75	70	67	68	65	61	62	59	57	53
3	86	76	68	62	81	73	66	60	66	61	56	60	56	52	55	51	48	45
4	79	67	59	53	75	64	57	51	59	53	48	54	49	45	49	45	41	38
5	72	60	52	45	69	58	50	44	53	46	41	48	43	39	44	40	36	33
6	67	54	46	39	63	52	44	38	48	41	36	44	38	34	40	35	32	29
7	62	49	41	35	59	47	39	34	43	37	32	40	34	30	36	32	28	26
8	57	45	36	31	55	43	35	30	39	33	28	36	31	27	33	29	25	23
9	54	41	33	28	51	39	32	27	36	30	26	33	28	24	31	26	23	21
10	50	38	30	25	48	36	29	24	33	27	23	31	26	22	29	24	21	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9256	9256	9256
5°	9325	9265	9231
10°	9302	9259	9233
15°	9254	9254	9245
20°	9193	9220	9220
25°	9106	9172	9144
30°	8995	9103	9064
35°	8861	8997	8934
40°	8715	8838	8749
45°	8557	8617	8484
50°	8332	8332	8199
55°	8068	7964	7843
60°	7678	7525	7405
65°	7097	6955	6894
70°	6215	6264	6239
75°	5001	5529	5561
80°	3555	4686	4739
85°	2160	3938	3938



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.9	2.6
10°-20°	272.4	7.5
20°-30°	412.6	11.3
30°-40°	494.6	13.6
40°-50°	504.4	13.8
50°-60°	440.3	12.1
60°-70°	315.2	8.6
70°-80°	162.3	4.4
80°-90°	41.8	1.1
90°-100°	68.6	1.9
100°-110°	180.2	4.9
110°-120°	186.9	5.1
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°	780.0	21.4
0°-40°	1274.6	34.9
0°-60°	2219.2	60.8
0°-90°	2738.5	75.0
90°-120°	435.7	11.9
90°-150°	793.5	21.7
90°-180°	912.0	25.0
0°-180°	3650.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1003	1003	1003	1003	1003	
5°	1007	997	1000	998	997	96
15°	969	961	969	969	968	273
25°	894	888	901	898	898	412
35°	787	785	799	793	793	492
45°	656	654	660	652	650	505
55°	502	495	495	488	488	447
65°	325	318	319	316	316	322
75°	140	147	155	156	156	152
85°	20	31	37	38	37	28
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	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1003.2	1003.2	1003.2	1003.2	1003.2
2.5°	1009.1	1000.4	1003.2	1000.8	997.2
5°	1006.9	996.9	1000.4	997.6	996.7
7.5°	999.6	989.6	994.2	992.4	991.5
10°	992.9	982.9	988.3	986.4	985.5
12.5°	984.0	974.8	980.9	979.0	978.8
15°	968.8	960.6	968.8	968.8	967.9
17.5°	949.7	942.2	951.0	951.5	951.0
20°	936.3	928.1	939.1	938.2	939.1
22.5°	919.9	913.2	924.9	922.6	923.5
25°	894.5	888.1	901.0	898.2	898.2
27.5°	864.4	859.8	873.9	870.9	870.9
30°	844.3	839.8	854.5	850.8	850.8
32.5°	822.0	818.9	833.0	828.5	828.5
35°	786.7	784.9	798.8	793.2	793.2
37.5°	750.3	748.7	761.3	754.5	752.4
40°	723.6	722.7	733.8	726.4	726.4
42.5°	696.8	695.9	705.6	696.6	696.6
45°	655.8	654.0	660.4	652.0	650.2
47.5°	611.0	609.2	613.2	604.1	603.2
50°	580.5	578.7	580.5	572.2	571.2
52.5°	549.3	546.1	546.3	538.0	537.8
55°	501.6	495.2	495.1	487.6	487.6
57.5°	451.0	442.7	443.4	437.1	436.2
60°	416.1	407.0	407.8	402.2	401.3
62.5°	381.9	371.4	373.6	367.3	367.1
65°	325.1	317.8	318.6	315.8	315.8
67.5°	270.5	263.8	268.6	266.4	266.2
70°	230.4	225.8	232.2	232.2	231.3
72.5°	193.2	193.0	201.0	201.0	201.6
75°	140.3	146.6	155.1	156.0	156.0
77.5°	93.6	104.9	114.2	114.6	114.4
80°	66.9	79.6	88.2	90.1	89.2
82.5°	45.3	58.8	65.9	67.8	66.9
85°	20.4	31.3	37.2	38.1	37.2
87.5°	6.1	13.0	16.3	15.5	14.1
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

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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)