

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: P562626

Luminaire Tested: **SQ4-PC3-050U-075D-830-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562626
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, 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-PC3-050U-075D-830-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

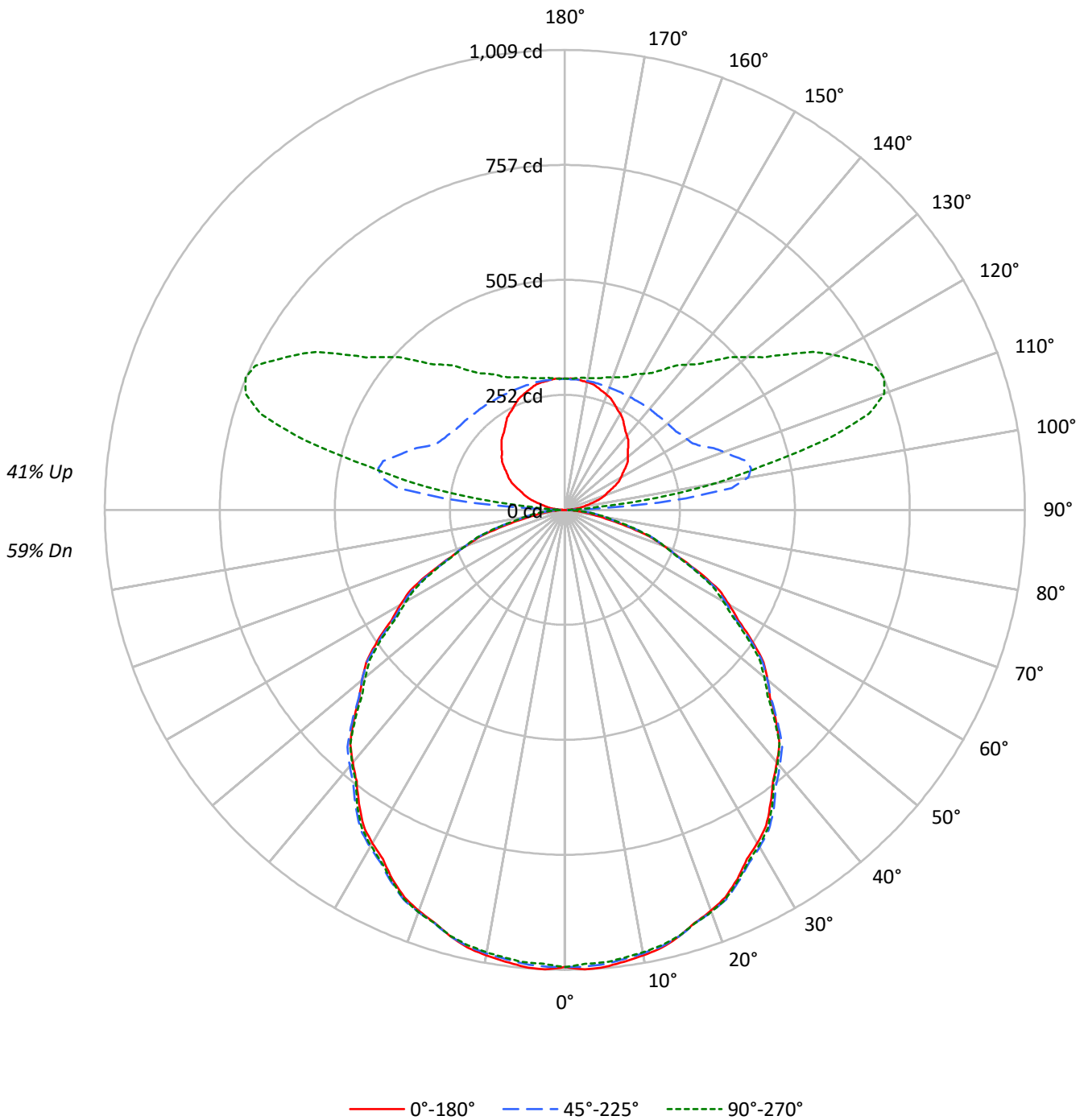
Lumens per Lamp: N/A
Luminaire Lumens: 4619.0 lumens
Efficiency: N/A
Efficacy: 127.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 36.3
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	109	109	109	109	102	102	102	102	88	88	88	76	76	76	65	65	65	59
1	100	96	92	88	93	89	86	83	78	75	73	67	65	64	57	56	55	50
2	91	83	77	72	85	78	73	68	68	64	60	59	56	53	50	48	46	42
3	83	73	66	60	77	69	62	57	60	55	51	52	48	45	45	42	39	36
4	76	65	57	51	71	61	54	48	53	48	43	46	42	38	40	37	34	30
5	70	58	50	43	65	54	47	41	48	42	37	42	37	33	36	32	29	26
6	64	52	44	38	60	49	41	36	43	37	33	38	33	29	33	29	26	23
7	59	47	39	33	55	44	37	32	39	33	29	34	29	26	30	26	23	20
8	55	43	35	29	51	40	33	28	36	30	25	31	26	23	27	23	21	18
9	51	39	31	26	48	37	30	25	33	27	23	29	24	21	25	21	18	16
10	48	36	28	23	45	34	27	22	30	24	21	27	22	19	23	20	17	15

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	2.1
10°-20°	272.4	5.9
20°-30°	412.6	8.9
30°-40°	494.6	10.7
40°-50°	504.4	10.9
50°-60°	440.3	9.5
60°-70°	315.2	6.8
70°-80°	162.3	3.5
80°-90°	42.2	0.9
90°-100°	138.2	3.0
100°-110°	375.5	8.1
110°-120°	386.1	8.4
120°-130°	308.7	6.7
130°-140°	242.5	5.3
140°-150°	186.0	4.0
150°-160°	133.7	2.9
160°-170°	81.8	1.8
170°-180°	27.6	0.6
0°-30°	780.0	16.9
0°-40°	1274.6	27.6
0°-60°	2219.2	48.0
0°-90°	2738.9	59.3
90°-120°	899.8	19.5
90°-150°	1637.0	35.4
90°-180°	1880.0	40.7
0°-180°	4619.0	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	4	6	8	8	2
95°	20	76	241	105	70	22
105°	67	104	413	629	592	71
115°	118	144	330	658	749	117
125°	163	186	299	504	594	145
135°	196	218	291	410	463	152
145°	227	243	287	349	375	142
155°	256	266	285	313	322	118
165°	278	281	286	298	299	78
175°	288	289	287	291	290	27
180°	288	288	288	288	288	

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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	13.2	16.2	16.5	15.0
90°	0.9	3.6	6.5	8.3	8.3
92.5°	8.3	37.8	65.7	28.2	23.9
95°	20.4	75.6	240.7	104.8	70.4
97.5°	33.7	83.5	369.1	287.1	201.7
100°	42.6	88.8	408.3	413.9	334.3
102.5°	51.5	94.0	418.7	511.9	441.7
105°	66.7	103.8	413.0	628.8	591.7
107.5°	82.4	115.2	389.1	689.1	699.4
110°	93.5	123.4	371.3	701.0	745.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	<i>103.1</i>	131.6	353.5	691.1	757.9
115°	<i>118.5</i>	143.9	330.5	657.6	749.1
117.5°	<i>133.0</i>	157.2	315.9	610.1	713.1
120°	<i>142.6</i>	166.1	309.3	578.2	680.5
122.5°	<i>150.7</i>	174.3	304.8	546.3	645.0
125°	<i>163.0</i>	185.6	299.1	503.9	594.4
127.5°	<i>173.9</i>	196.3	295.9	471.8	549.4
130°	<i>180.6</i>	202.3	294.4	451.6	521.3
132.5°	<i>187.2</i>	208.9	293.0	434.4	496.1
135°	<i>196.3</i>	218.0	290.7	410.4	463.0
137.5°	<i>206.1</i>	225.8	289.6	389.3	433.5
140°	<i>212.0</i>	231.0	288.9	375.9	415.7
142.5°	<i>218.0</i>	235.5	288.1	365.4	398.7
145°	<i>226.8</i>	243.1	287.0	348.7	375.0
147.5°	<i>236.8</i>	250.8	286.1	335.6	356.3
150°	<i>243.5</i>	255.3	286.1	328.1	344.4
152.5°	<i>248.7</i>	259.0	285.4	321.4	334.8
155°	<i>256.5</i>	265.5	285.2	313.2	322.2
157.5°	<i>264.1</i>	271.1	285.2	307.6	314.4
160°	<i>268.5</i>	274.9	285.2	303.8	309.3
162.5°	<i>273.0</i>	277.8	285.9	300.8	304.8
165°	<i>277.8</i>	281.4	286.1	298.2	299.1
167.5°	<i>282.8</i>	284.6	287.0	295.0	295.7
170°	<i>284.3</i>	286.1	287.0	293.5	293.5
172.5°	<i>285.7</i>	286.8	287.0	292.0	292.0
175°	<i>288.0</i>	288.9	287.0	290.7	289.8
177.5°	<i>288.7</i>	288.7	286.5	289.4	288.0
180°	<i>288.0</i>	288.0	288.0	288.0	288.0

(END OF REPORT)