

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: P562602

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

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562602
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-050D-830-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

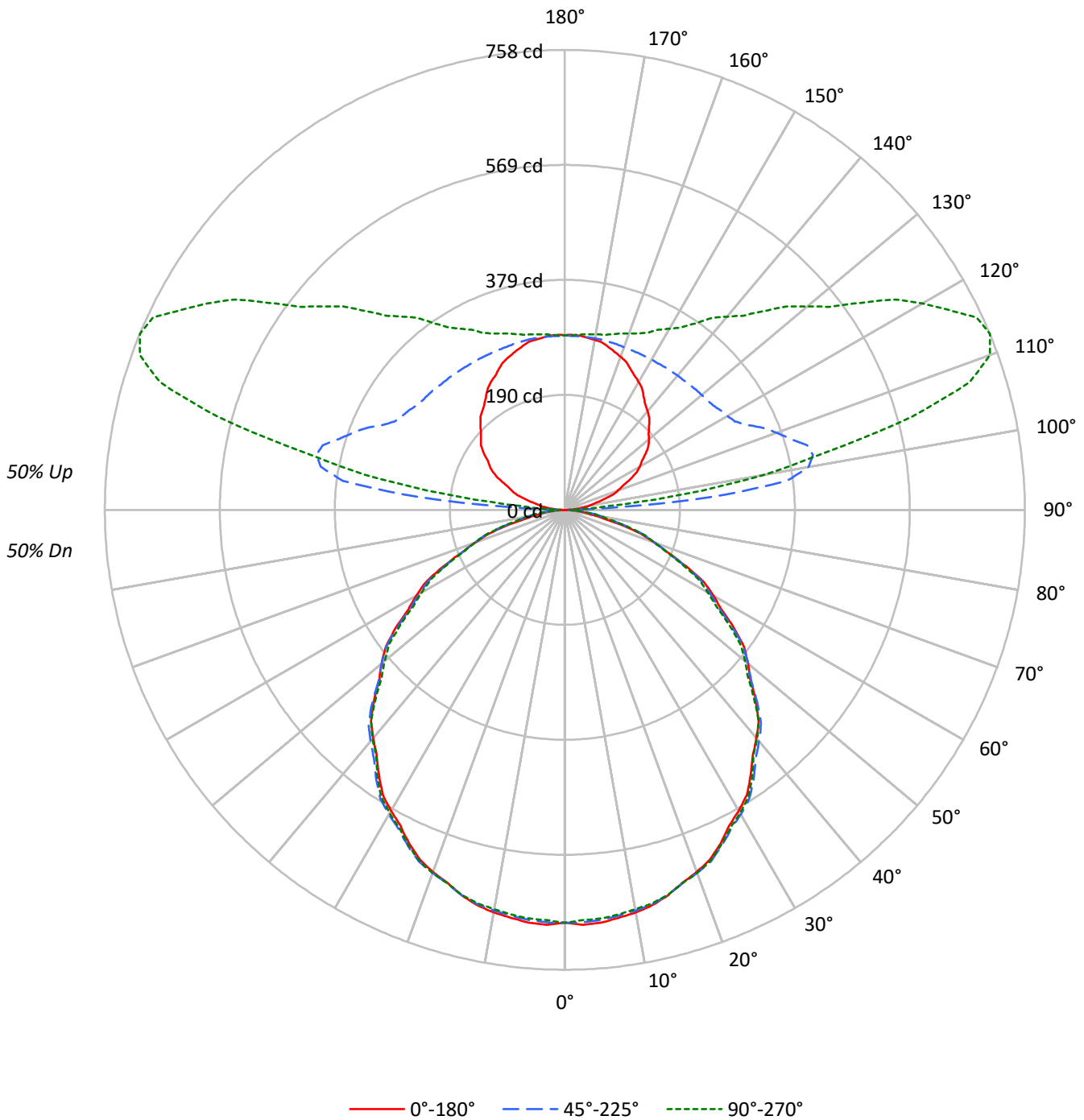
Lumens per Lamp: N/A
Luminaire Lumens: 3738.8 lumens
Efficiency: N/A
Efficacy: 131.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 28.5
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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	98	93	90	86	90	86	83	80	73	71	68	61	59	58	49	48	47	42
2	89	82	76	70	82	75	70	66	64	60	57	53	51	48	44	42	40	35
3	81	72	64	59	75	66	60	55	56	52	48	47	44	41	39	36	34	30
4	74	63	56	49	68	59	52	46	50	45	41	42	38	35	34	32	29	25
5	68	56	48	42	63	52	45	40	45	39	35	38	33	30	31	28	25	22
6	63	51	42	37	58	47	40	35	40	35	30	34	30	26	28	25	22	19
7	58	46	38	32	53	42	35	30	36	31	27	31	26	23	26	22	20	17
8	54	41	34	28	49	39	32	27	33	28	24	28	24	21	23	20	18	15
9	50	38	30	25	46	35	28	24	30	25	21	26	22	19	22	18	16	14
10	47	35	27	23	43	32	26	21	28	23	19	24	20	17	20	17	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6279	6279	6279
5°	6326	6286	6263
10°	6312	6282	6264
15°	6278	6278	6273
20°	6237	6255	6255
25°	6178	6223	6204
30°	6103	6177	6150
35°	6012	6105	6062
40°	5912	5997	5935
45°	5805	5847	5755
50°	5654	5654	5563
55°	5474	5403	5323
60°	5209	5106	5023
65°	4816	4720	4678
70°	4216	4251	4232
75°	3394	3750	3775
80°	2412	3183	3214
85°	1471	2668	2668



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.4	1.7
10°-20°	184.8	4.9
20°-30°	279.9	7.5
30°-40°	335.6	9.0
40°-50°	342.2	9.2
50°-60°	298.7	8.0
60°-70°	213.9	5.7
70°-80°	110.2	2.9
80°-90°	29.0	0.8
90°-100°	138.2	3.7
100°-110°	375.5	10.0
110°-120°	386.1	10.3
120°-130°	308.7	8.3
130°-140°	242.5	6.5
140°-150°	186.0	5.0
150°-160°	133.7	3.6
160°-170°	81.8	2.2
170°-180°	27.6	0.7
0°-30°	529.2	14.2
0°-40°	864.8	23.1
0°-60°	1505.7	40.3
0°-90°	1858.7	49.7
90°-120°	899.8	24.1
90°-150°	1637.0	43.8
90°-180°	1880.0	50.3
0°-180°	3738.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	681	681	681	681	681	
5°	683	676	679	677	676	65
15°	657	652	657	657	657	185
25°	607	603	611	609	609	279
35°	534	533	542	538	538	334
45°	445	444	448	442	441	342
55°	340	336	336	331	331	303
65°	221	216	216	214	214	218
75°	95	100	105	106	106	103
85°	14	21	25	26	25	19
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°	680.6	680.6	680.6	680.6	680.6
2.5°	684.7	678.7	680.6	679.1	676.6
5°	683.1	676.4	678.7	676.8	676.2
7.5°	678.2	671.4	674.6	673.3	672.7
10°	673.7	666.9	670.5	669.3	668.6
12.5°	667.6	661.4	665.5	664.2	664.1
15°	657.3	651.8	657.3	657.3	656.7
17.5°	644.3	639.3	645.2	645.6	645.2
20°	635.2	629.7	637.1	636.5	637.1
22.5°	624.2	619.6	627.6	625.9	626.5
25°	606.9	602.6	611.3	609.4	609.4
27.5°	586.5	583.4	592.9	590.9	590.9
30°	572.9	569.8	579.8	577.3	577.3
32.5°	557.7	555.6	565.2	562.1	562.1
35°	533.8	532.6	542.0	538.2	538.2
37.5°	509.1	508.0	516.5	511.9	510.5
40°	490.9	490.3	497.9	492.8	492.8
42.5°	472.8	472.2	478.7	472.7	472.7
45°	444.9	443.7	448.1	442.4	441.1
47.5°	414.5	413.3	416.1	409.9	409.3
50°	393.9	392.6	393.9	388.2	387.6
52.5°	372.7	370.5	370.7	365.0	364.9
55°	340.3	336.0	335.9	330.9	330.9
57.5°	306.0	300.4	300.9	296.6	295.9
60°	282.3	276.2	276.7	272.9	272.2
62.5°	259.1	252.0	253.5	249.2	249.1
65°	220.6	215.6	216.2	214.3	214.3
67.5°	183.5	179.0	182.3	180.7	180.6
70°	156.3	153.2	157.6	157.5	156.9
72.5°	131.1	131.0	136.4	136.4	136.8
75°	95.2	99.5	105.2	105.9	105.9
77.5°	63.5	71.2	77.5	77.8	77.6
80°	45.4	54.0	59.9	61.1	60.5
82.5°	30.8	39.9	44.7	46.0	45.4
85°	13.9	21.3	25.2	25.8	25.2
87.5°	4.2	9.2	11.4	11.7	10.7
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°	103.1	131.6	353.5	691.1	757.9
115°	118.5	143.9	330.5	657.6	749.1
117.5°	133.0	157.2	315.9	610.1	713.1
120°	142.6	166.1	309.3	578.2	680.5
122.5°	150.7	174.3	304.8	546.3	645.0
125°	163.0	185.6	299.1	503.9	594.4
127.5°	173.9	196.3	295.9	471.8	549.4
130°	180.6	202.3	294.4	451.6	521.3
132.5°	187.2	208.9	293.0	434.4	496.1
135°	196.3	218.0	290.7	410.4	463.0
137.5°	206.1	225.8	289.6	389.3	433.5
140°	212.0	231.0	288.9	375.9	415.7
142.5°	218.0	235.5	288.1	365.4	398.7
145°	226.8	243.1	287.0	348.7	375.0
147.5°	236.8	250.8	286.1	335.6	356.3
150°	243.5	255.3	286.1	328.1	344.4
152.5°	248.7	259.0	285.4	321.4	334.8
155°	256.5	265.5	285.2	313.2	322.2
157.5°	264.1	271.1	285.2	307.6	314.4
160°	268.5	274.9	285.2	303.8	309.3
162.5°	273.0	277.8	285.9	300.8	304.8
165°	277.8	281.4	286.1	298.2	299.1
167.5°	282.8	284.6	287.0	295.0	295.7
170°	284.3	286.1	287.0	293.5	293.5
172.5°	285.7	286.8	287.0	292.0	292.0
175°	288.0	288.9	287.0	290.7	289.8
177.5°	288.7	288.7	286.5	289.4	288.0
180°	288.0	288.0	288.0	288.0	288.0

(END OF REPORT)