

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: P562506

Luminaire Tested: **SQ4-PC3-025U-050D-830-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562506
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-050D-830-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

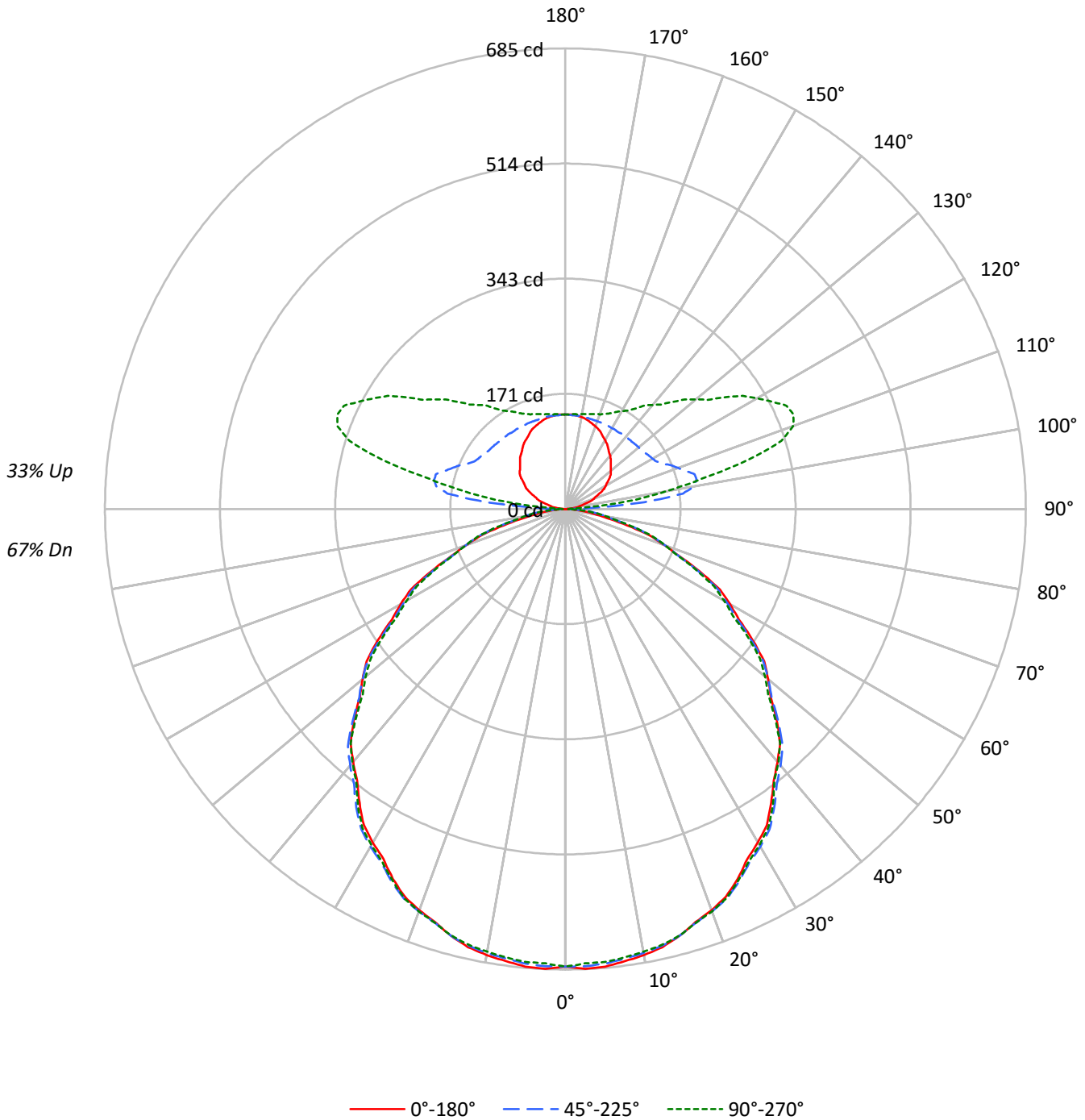
Lumens per Lamp: N/A
Luminaire Lumens: 2770.1 lumens
Efficiency: N/A
Efficacy: 125.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 22.1
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	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	97	93	90	96	92	88	85	82	79	77	72	70	68	64	62	61	57				
2	93	85	79	73	87	80	75	70	72	67	63	63	60	57	56	54	51	47				
3	85	75	67	61	79	71	64	59	63	58	53	56	52	48	50	46	44	40				
4	77	66	58	52	73	63	55	50	56	50	45	50	45	41	44	41	38	34				
5	71	59	51	44	67	56	48	43	50	44	39	45	40	36	40	36	33	30				
6	65	53	45	39	61	50	43	37	45	39	34	41	35	31	36	32	29	26				
7	61	48	40	34	57	46	38	33	41	35	30	37	32	28	33	29	26	23				
8	56	44	36	30	53	41	34	29	38	31	27	34	29	25	30	26	23	21				
9	52	40	32	27	49	38	31	26	34	28	24	31	26	22	28	24	21	19				
10	49	37	29	24	46	35	28	23	32	26	22	29	24	20	26	22	19	17				

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	2.3
10°-20°	184.8	6.7
20°-30°	279.9	10.1
30°-40°	335.6	12.1
40°-50°	342.2	12.4
50°-60°	298.7	10.8
60°-70°	213.9	7.7
70°-80°	110.2	4.0
80°-90°	28.6	1.0
90°-100°	68.6	2.5
100°-110°	180.2	6.5
110°-120°	186.9	6.7
120°-130°	149.9	5.4
130°-140°	117.6	4.2
140°-150°	90.3	3.3
150°-160°	65.0	2.3
160°-170°	39.8	1.4
170°-180°	13.4	0.5
0°-30°	529.2	19.1
0°-40°	864.8	31.2
0°-60°	1505.7	54.4
0°-90°	1858.4	67.1
90°-120°	435.7	15.7
90°-150°	793.5	28.6
90°-180°	912.0	32.9
0°-180°	2770.1	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	3	7	4	4	1
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°	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	9.0	11.5	10.8	9.8
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)