

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: P562794

Luminaire Tested: **SQ4-PC3-0U-050D-830-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562794
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (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-PC3-0U-050D-830-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

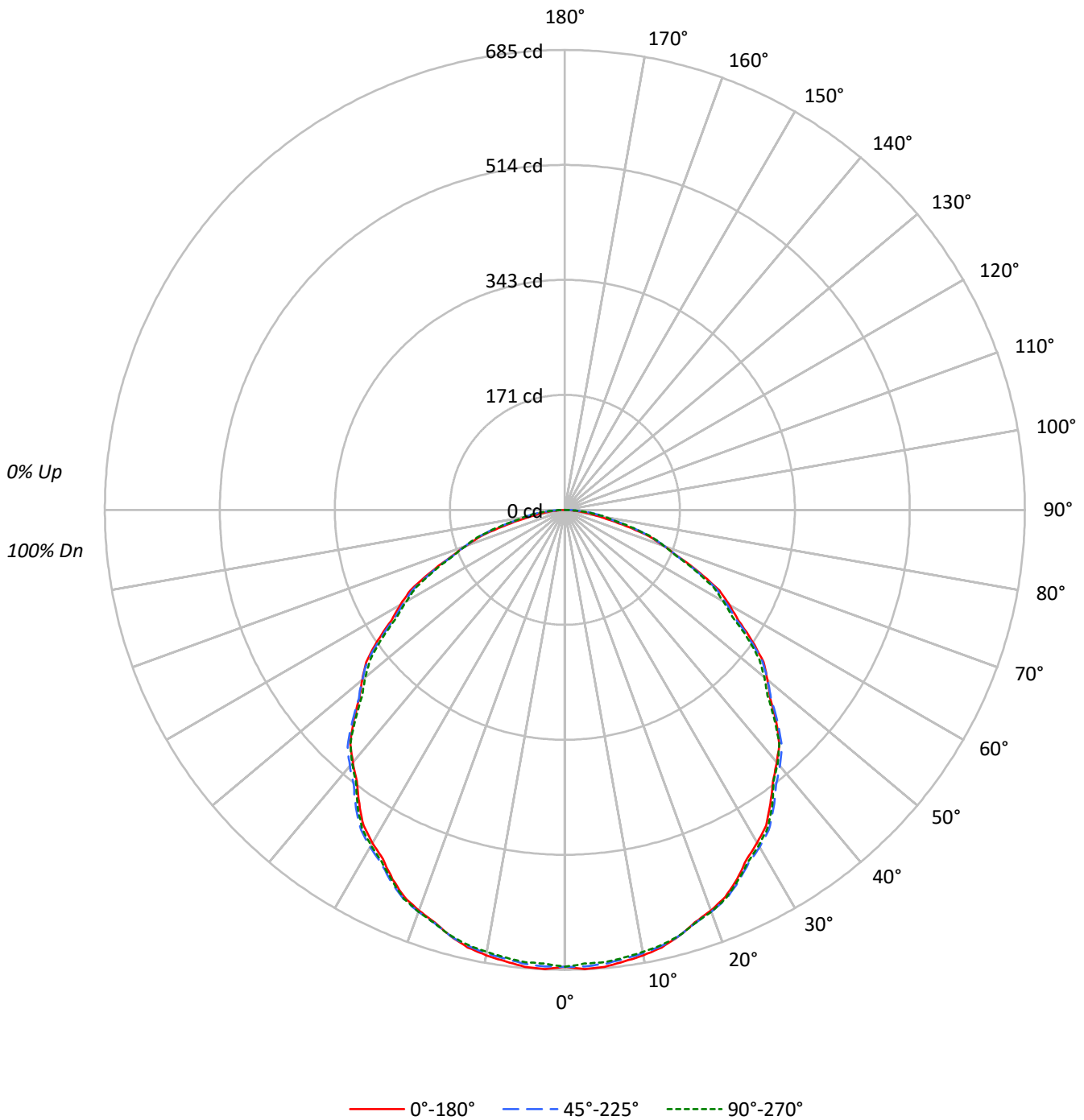
Lumens per Lamp: N/A
Luminaire Lumens: 1857.6 lumens
Efficiency: N/A
Efficacy: 114.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 16.2
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	109	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85				85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71				71
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60				60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51				51
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	44				44
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39				39
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34				34
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31				31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28				28
10	54	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25				25

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	3.5
10°-20°	184.8	10.0
20°-30°	279.9	15.1
30°-40°	335.6	18.1
40°-50°	342.2	18.4
50°-60°	298.7	16.1
60°-70°	213.9	11.5
70°-80°	110.2	5.9
80°-90°	27.9	1.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	529.2	28.5
0°-40°	864.8	46.6
0°-60°	1505.7	81.1
0°-90°	1857.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1857.6	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°	0	0	0	0	0	



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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°	4.0	8.5	10.1	10.1	9.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)