

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: P562603

Luminaire Tested: **SQ4-PC3-050U-050D-830-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562603
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-6
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

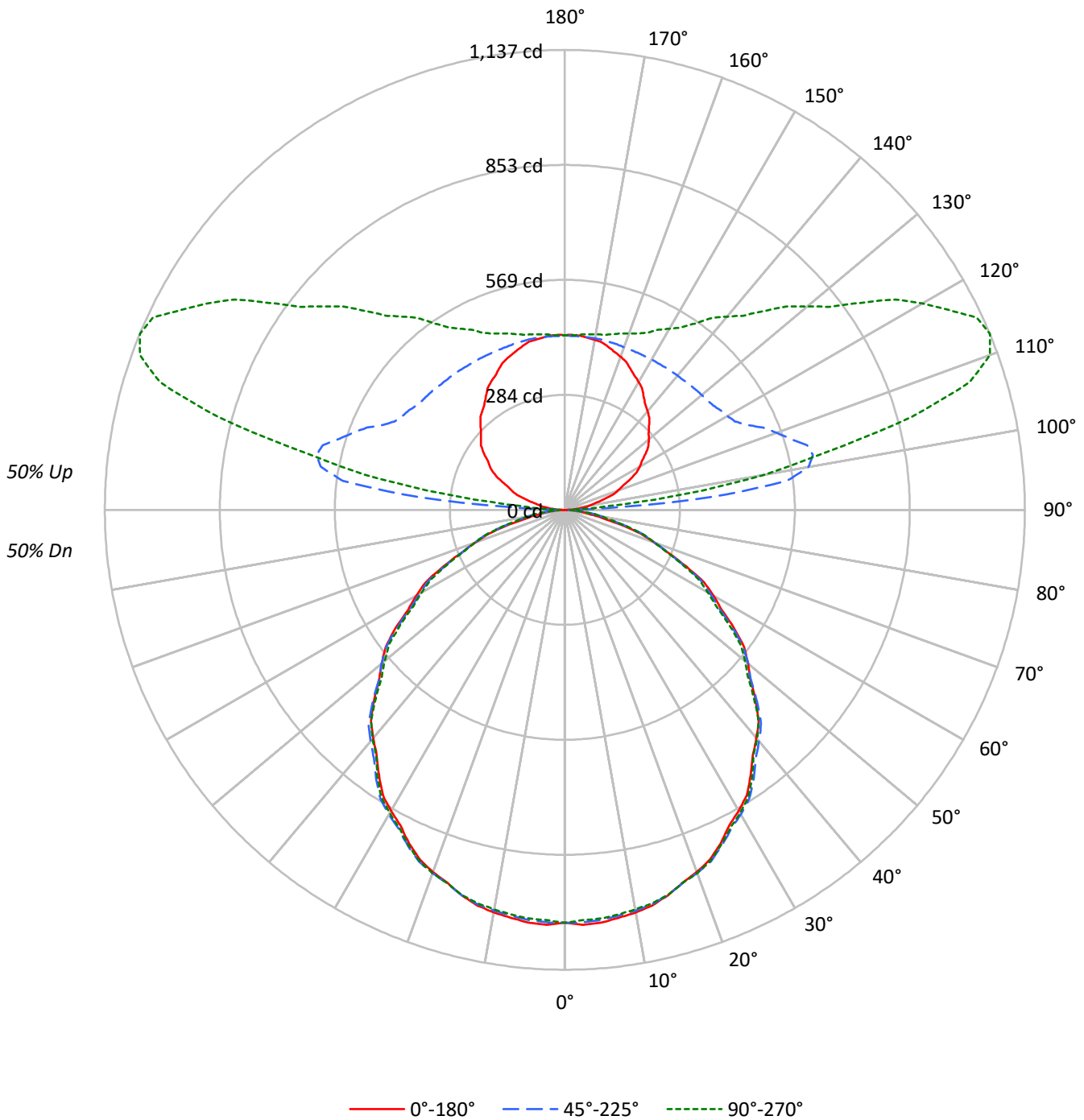
Lumens per Lamp: N/A
Luminaire Lumens: 5608.2 lumens
Efficiency: N/A
Efficacy: 125.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 44.8
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°	6327	6286	6263
10°	6311	6282	6264
15°	6279	6279	6272
20°	6237	6256	6256
25°	6178	6223	6204
30°	6103	6177	6150
35°	6012	6105	6062
40°	5913	5996	5935
45°	5805	5846	5756
50°	5653	5653	5563
55°	5474	5403	5322
60°	5210	5105	5024
65°	4816	4718	4678
70°	4215	4250	4233
75°	3391	3752	3774
80°	2412	3181	3213
85°	1468	2668	2668



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.6	1.7
10°-20°	277.3	4.9
20°-30°	419.9	7.5
30°-40°	503.4	9.0
40°-50°	513.3	9.2
50°-60°	448.1	8.0
60°-70°	320.8	5.7
70°-80°	165.2	2.9
80°-90°	43.4	0.8
90°-100°	207.4	3.7
100°-110°	563.3	10.0
110°-120°	579.1	10.3
120°-130°	463.0	8.3
130°-140°	363.8	6.5
140°-150°	279.0	5.0
150°-160°	200.6	3.6
160°-170°	122.7	2.2
170°-180°	41.3	0.7
0°-30°	793.8	14.2
0°-40°	1297.2	23.1
0°-60°	2258.5	40.3
0°-90°	2788.0	49.7
90°-120°	1349.8	24.1
90°-150°	2455.6	43.8
90°-180°	2820.0	50.3
0°-180°	5608.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1021	1021	1021	1021	1021	
5°	1025	1014	1018	1015	1014	97
15°	986	978	986	986	985	278
25°	910	904	917	914	914	419
35°	801	799	813	807	807	501
45°	667	666	672	664	662	514
55°	510	504	504	496	496	455
65°	331	324	324	321	321	327
75°	143	149	158	159	159	154
85°	21	32	38	39	38	28
90°	1	6	10	12	12	3
95°	31	113	361	157	106	32
105°	100	156	619	943	888	106
115°	178	216	496	986	1124	175
125°	244	278	449	756	892	218
135°	294	327	436	616	694	228
145°	340	365	430	523	562	214
155°	385	398	428	470	483	177
165°	417	422	429	447	449	118
175°	432	433	430	436	435	41
180°	432	432	432	432	432	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1020.9	1020.9	1020.9	1020.9	1020.9
2.5°	1027.0	1018.1	1020.9	1018.6	1014.9
5°	1024.7	1014.5	1018.1	1015.2	1014.3
7.5°	1017.3	1007.2	1011.9	1009.9	1009.0
10°	1010.5	1000.4	1005.8	1003.9	1003.0
12.5°	1001.5	992.0	998.2	996.3	996.2
15°	986.0	977.6	986.0	985.9	985.0
17.5°	966.5	958.9	967.8	968.4	967.8
20°	952.9	944.6	955.7	954.8	955.7
22.5°	936.2	929.4	941.3	938.9	939.8
25°	910.3	903.9	916.9	914.1	914.1
27.5°	879.7	875.1	889.3	886.3	886.3
30°	859.3	854.7	869.7	865.9	865.9
32.5°	836.6	833.5	847.8	843.2	843.2
35°	800.7	798.8	813.0	807.3	807.3
37.5°	763.6	762.0	774.8	767.9	765.7
40°	736.4	735.5	746.8	739.2	739.2
42.5°	709.2	708.2	718.1	709.0	709.0
45°	667.4	665.5	672.1	663.6	661.7
47.5°	621.8	620.0	624.1	614.8	613.9
50°	590.8	589.0	590.8	582.3	581.4
52.5°	559.1	555.7	556.0	547.5	547.3
55°	510.5	504.0	503.8	496.3	496.3
57.5°	459.0	450.5	451.3	444.8	443.9
60°	423.5	414.3	415.0	409.3	408.4
62.5°	388.7	378.0	380.2	373.8	373.6
65°	330.9	323.5	324.2	321.4	321.4
67.5°	275.3	268.4	273.4	271.1	270.9
70°	234.4	229.8	236.3	236.3	235.4
72.5°	196.6	196.4	204.6	204.6	205.1
75°	142.7	149.2	157.9	158.8	158.8
77.5°	95.3	106.7	116.3	116.6	116.5
80°	68.1	81.0	89.8	91.7	90.7
82.5°	46.1	59.8	67.1	69.0	68.1
85°	20.8	31.9	37.8	38.7	37.8
87.5°	6.3	13.8	17.1	17.6	16.1
90°	1.4	5.5	9.7	12.5	12.5
92.5°	12.5	56.8	98.6	42.4	35.8
95°	30.6	113.4	361.1	157.2	105.6
97.5°	50.6	125.2	553.6	430.7	302.5
100°	63.9	133.1	612.5	620.9	501.4
102.5°	77.2	141.0	628.0	767.9	662.5
105°	100.0	155.7	619.4	943.2	887.5
107.5°	123.6	172.8	583.6	1033.7	1049.1
110°	140.3	185.1	556.9	1051.5	1118.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	154.7	197.4	530.3	1036.7	1136.9
115°	177.8	215.8	495.8	986.4	1123.6
117.5°	199.4	235.8	473.9	915.2	1069.7
120°	213.9	249.2	463.9	867.4	1020.8
122.5°	226.1	261.4	457.2	819.5	967.5
125°	244.4	278.4	448.6	755.8	891.6
127.5°	260.8	294.5	443.9	707.6	824.2
130°	270.8	303.4	441.7	677.4	781.9
132.5°	280.8	313.4	439.4	651.5	744.2
135°	294.4	327.0	436.1	615.7	694.4
137.5°	309.2	338.8	434.4	584.0	650.3
140°	318.0	346.6	433.3	563.8	623.6
142.5°	326.9	353.3	432.2	548.1	598.0
145°	340.3	364.7	430.5	523.1	562.5
147.5°	355.3	376.2	429.2	503.5	534.4
150°	365.3	382.9	429.2	492.2	516.7
152.5°	373.0	388.5	428.0	482.1	502.2
155°	384.7	398.3	427.8	469.7	483.3
157.5°	396.1	406.7	427.8	461.3	471.7
160°	402.8	412.3	427.8	455.7	463.9
162.5°	409.4	416.8	428.9	451.2	457.2
165°	416.7	422.1	429.2	447.2	448.6
167.5°	424.2	426.9	430.5	442.5	443.6
170°	426.4	429.1	430.5	440.3	440.3
172.5°	428.6	430.2	430.5	438.0	438.0
175°	431.9	433.3	430.5	436.1	434.7
177.5°	433.0	433.0	429.7	434.1	431.9
180°	431.9	431.9	431.9	431.9	431.9

(END OF REPORT)