

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: P562650

Luminaire Tested: **SQ4-PC3-050U-100D-830-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562650
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-100D-830-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

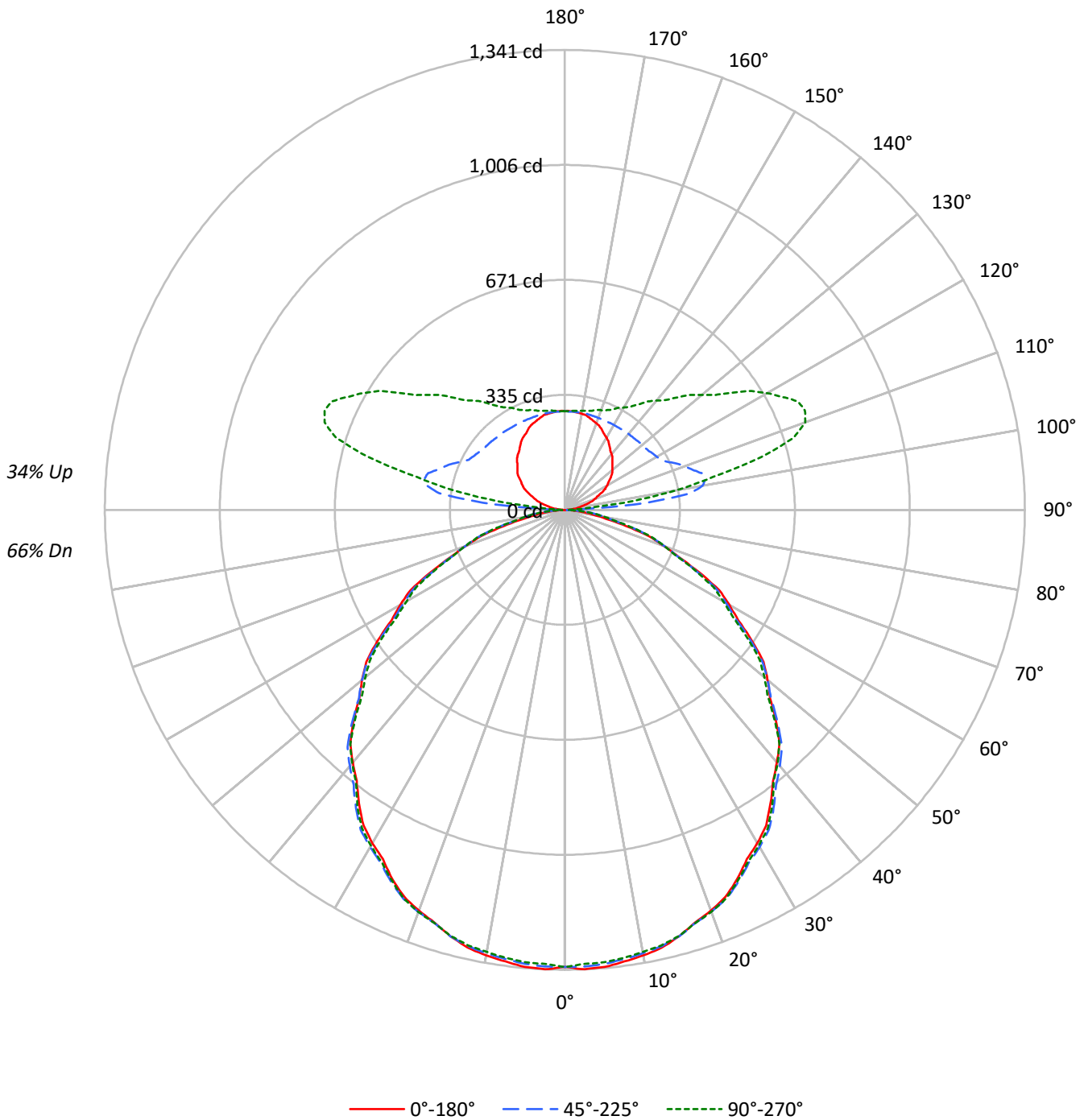
Lumens per Lamp: N/A
Luminaire Lumens: 5519.0 lumens
Efficiency: N/A
Efficacy: 122.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 45.1
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	0
RCR																		
0	111	111	111	111	104	104	104	104	92	92	92	81	81	81	71	71	71	66
1	101	97	93	90	95	91	88	85	81	78	76	72	70	68	63	61	60	56
2	92	85	78	73	87	80	74	70	71	67	63	63	60	57	55	53	51	47
3	84	75	67	61	79	70	64	58	63	57	53	56	51	48	49	46	43	39
4	77	66	58	52	72	62	55	49	56	50	45	49	45	41	44	40	37	34
5	71	59	50	44	66	56	48	42	50	44	39	44	39	36	39	35	32	29
6	65	53	44	38	61	50	43	37	45	39	34	40	35	31	36	32	28	26
7	60	48	40	34	57	45	38	33	41	35	30	37	31	28	32	28	25	23
8	56	43	35	30	53	41	34	29	37	31	27	33	28	25	30	26	22	20
9	52	40	32	27	49	38	31	26	34	28	24	31	26	22	28	23	20	18
10	49	36	29	24	46	35	28	23	32	26	22	28	23	20	26	21	18	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12298	12298	12298
5°	12390	12310	12265
10°	12360	12303	12267
15°	12295	12295	12283
20°	12214	12250	12250
25°	12099	12186	12149
30°	11952	12096	12044
35°	11773	11955	11871
40°	11579	11743	11624
45°	11369	11449	11272
50°	11072	11072	10894
55°	10719	10581	10422
60°	10202	9998	9839
65°	9431	9241	9160
70°	8257	8322	8290
75°	6645	7347	7390
80°	4723	6227	6296
85°	2879	5229	5229



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.1	2.3
10°-20°	362.0	6.6
20°-30°	548.2	9.9
30°-40°	657.2	11.9
40°-50°	670.1	12.1
50°-60°	585.0	10.6
60°-70°	418.8	7.6
70°-80°	215.7	3.9
80°-90°	55.7	1.0
90°-100°	138.2	2.5
100°-110°	375.5	6.8
110°-120°	386.1	7.0
120°-130°	308.7	5.6
130°-140°	242.5	4.4
140°-150°	186.0	3.4
150°-160°	133.7	2.4
160°-170°	81.8	1.5
170°-180°	27.6	0.5
0°-30°	1036.3	18.8
0°-40°	1693.6	30.7
0°-60°	2948.7	53.4
0°-90°	3638.8	65.9
90°-120°	899.8	16.3
90°-150°	1637.0	29.7
90°-180°	1880.0	34.1
0°-180°	5519.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1333	1333	1333	1333	1333	
5°	1338	1325	1329	1326	1324	127
15°	1287	1276	1287	1287	1286	363
25°	1188	1180	1197	1193	1193	547
35°	1045	1043	1061	1054	1054	654
45°	871	869	878	866	864	671
55°	666	658	658	648	648	594
65°	432	422	423	420	420	427
75°	186	195	206	207	207	201
85°	27	42	49	51	49	37
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°	1332.9	1332.9	1332.9	1332.9	1332.9
2.5°	1340.8	1329.2	1332.9	1329.8	1325.0
5°	1337.8	1324.6	1329.2	1325.5	1324.3
7.5°	1328.2	1314.9	1321.0	1318.6	1317.3
10°	1319.3	1306.0	1313.2	1310.7	1309.4
12.5°	1307.5	1295.2	1303.3	1300.8	1300.6
15°	1287.2	1276.4	1287.2	1287.2	1286.0
17.5°	1261.8	1251.9	1263.5	1264.3	1263.5
20°	1244.0	1233.2	1247.7	1246.5	1247.7
22.5°	1222.3	1213.4	1229.0	1225.8	1227.0
25°	1188.5	1180.1	1197.1	1193.4	1193.4
27.5°	1148.5	1142.5	1161.1	1157.2	1157.2
30°	1121.9	1115.8	1135.4	1130.5	1130.5
32.5°	1092.2	1088.1	1106.8	1100.9	1100.9
35°	1045.3	1042.9	1061.4	1054.0	1054.0
37.5°	997.0	994.8	1011.5	1002.6	999.7
40°	961.4	960.2	975.0	965.1	965.1
42.5°	925.9	924.7	937.5	925.6	925.6
45°	871.3	868.9	877.5	866.3	863.9
47.5°	811.8	809.4	814.8	802.7	801.5
50°	771.4	768.9	771.4	760.2	759.0
52.5°	729.9	725.5	725.9	714.8	714.6
55°	666.4	658.0	657.8	647.9	647.9
57.5°	599.3	588.2	589.2	580.8	579.6
60°	552.9	540.8	541.8	534.4	533.2
62.5°	507.5	493.5	496.4	488.0	487.7
65°	432.0	422.3	423.3	419.6	419.6
67.5°	359.4	350.5	356.9	354.0	353.7
70°	306.1	300.0	308.5	308.5	307.3
72.5°	256.7	256.5	267.1	267.1	267.8
75°	186.4	194.8	206.1	207.3	207.3
77.5°	124.4	139.4	151.8	152.3	152.0
80°	88.9	105.8	117.2	119.7	118.5
82.5°	60.2	78.1	87.6	90.1	88.9
85°	27.2	41.6	49.4	50.6	49.4
87.5°	8.1	17.3	21.0	21.4	19.4
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)