

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: P562659

Luminaire Tested: **SQ4-PC3-050U-100D-840-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562659
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-840-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

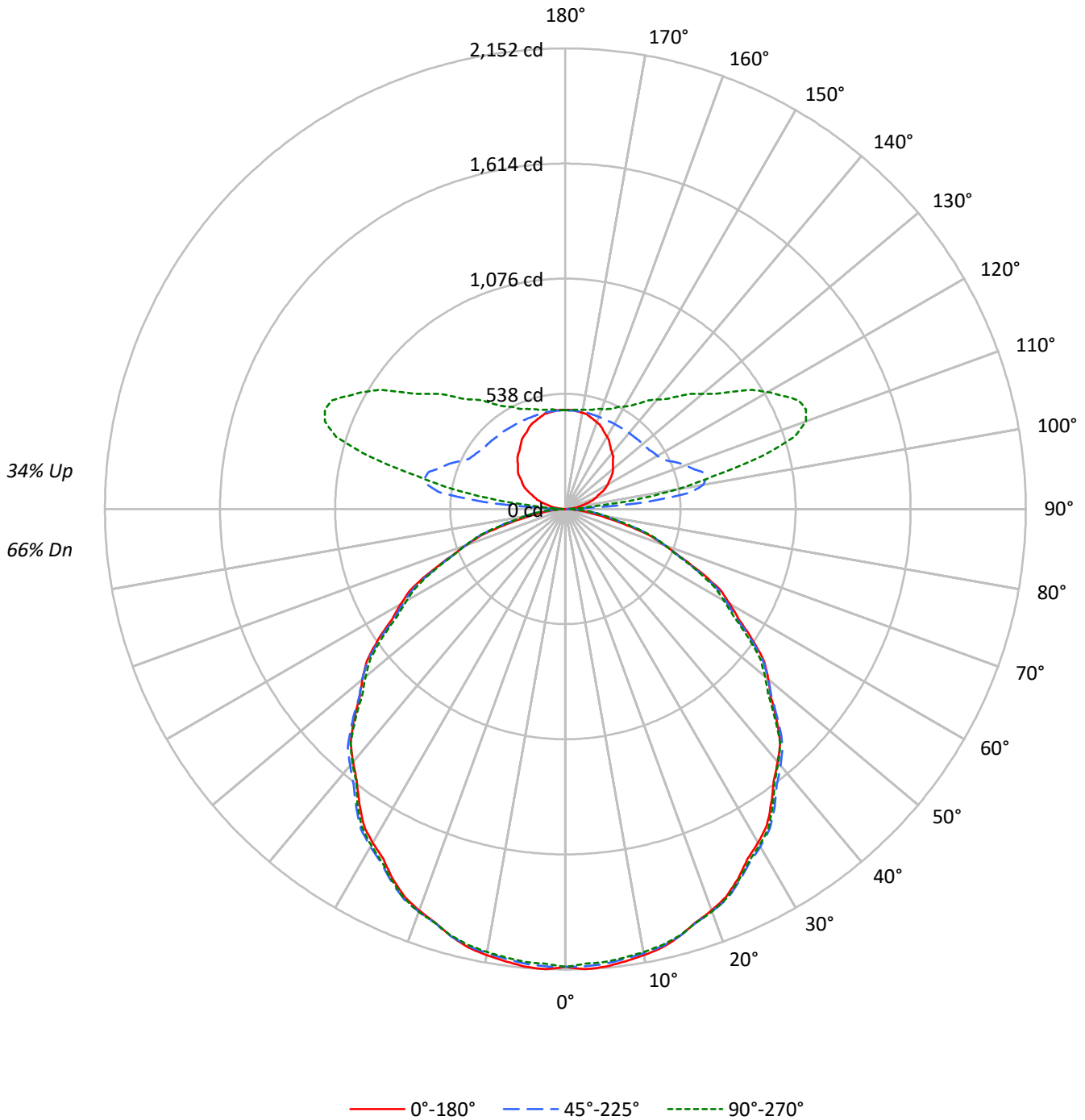
Lumens per Lamp: N/A
Luminaire Lumens: 8858.9 lumens
Efficiency: N/A
Efficacy: 120.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 73.4
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°	13160	13160	13160
5°	13259	13173	13124
10°	13226	13165	13128
15°	13157	13157	13144
20°	13071	13109	13109
25°	12947	13041	13001
30°	12790	12944	12888
35°	12599	12793	12703
40°	12391	12566	12439
45°	12166	12252	12062
50°	11847	11847	11658
55°	11472	11323	11153
60°	10918	10699	10528
65°	10092	9889	9802
70°	8835	8907	8871
75°	7108	7861	7909
80°	5051	6666	6737
85°	3077	5589	5589



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.5	2.3
10°-20°	581.1	6.6
20°-30°	879.9	9.9
30°-40°	1054.9	11.9
40°-50°	1075.7	12.1
50°-60°	939.0	10.6
60°-70°	672.2	7.6
70°-80°	346.2	3.9
80°-90°	89.3	1.0
90°-100°	221.9	2.5
100°-110°	602.8	6.8
110°-120°	619.7	7.0
120°-130°	495.5	5.6
130°-140°	389.3	4.4
140°-150°	298.5	3.4
150°-160°	214.7	2.4
160°-170°	131.3	1.5
170°-180°	44.2	0.5
0°-30°	1663.5	18.8
0°-40°	2718.4	30.7
0°-60°	4733.1	53.4
0°-90°	5840.9	65.9
90°-120°	1444.4	16.3
90°-150°	2627.7	29.7
90°-180°	3018.0	34.1
0°-180°	8858.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2140	2140	2140	2140	2140	
5°	2147	2126	2134	2128	2126	204
15°	2066	2049	2066	2066	2064	583
25°	1908	1894	1922	1916	1916	878
35°	1678	1674	1704	1692	1692	1049
45°	1399	1395	1408	1391	1387	1077
55°	1070	1056	1056	1040	1040	954
65°	693	678	680	674	674	686
75°	299	313	331	333	333	323
85°	44	67	79	81	79	59
90°	2	6	10	13	13	4
95°	33	121	386	168	113	35
105°	107	167	663	1009	950	114
115°	190	231	531	1056	1202	188
125°	262	298	480	809	954	233
135°	315	350	467	659	743	244
145°	364	390	461	560	602	229
155°	412	426	458	503	517	190
165°	446	452	459	479	480	126
175°	462	464	461	467	465	44
180°	462	462	462	462	462	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2139.5	2139.5	2139.5	2139.5	2139.5
2.5°	2152.2	2133.6	2139.5	2134.6	2126.8
5°	2147.4	2126.1	2133.6	2127.6	2125.6
7.5°	2132.0	2110.7	2120.5	2116.5	2114.5
10°	2117.7	2096.4	2107.8	2103.8	2101.9
12.5°	2098.7	2078.9	2092.0	2088.0	2087.6
15°	2066.2	2048.8	2066.2	2066.2	2064.2
17.5°	2025.4	2009.5	2028.2	2029.3	2028.2
20°	1996.9	1979.4	2002.8	2000.9	2002.8
22.5°	1962.0	1947.7	1972.7	1967.6	1969.5
25°	1907.7	1894.2	1921.6	1915.7	1915.7
27.5°	1843.5	1833.9	1863.7	1857.4	1857.4
30°	1800.8	1791.1	1822.5	1814.6	1814.6
32.5°	1753.2	1746.6	1776.6	1767.1	1767.1
35°	1677.9	1674.1	1703.7	1691.8	1691.8
37.5°	1600.3	1596.8	1623.6	1609.3	1604.6
40°	1543.2	1541.3	1565.0	1549.2	1549.2
42.5°	1486.2	1484.2	1504.8	1485.8	1485.8
45°	1398.6	1394.7	1408.5	1390.6	1386.7
47.5°	1303.1	1299.2	1307.9	1288.4	1286.5
50°	1238.1	1234.3	1238.1	1220.3	1218.3
52.5°	1171.6	1164.6	1165.2	1147.4	1147.0
55°	1069.8	1056.2	1055.9	1040.0	1040.0
57.5°	962.0	944.2	945.7	932.2	930.3
60°	887.5	868.1	869.7	857.7	855.8
62.5°	814.6	792.1	796.8	783.3	782.9
65°	693.4	677.9	679.5	673.5	673.5
67.5°	576.9	562.5	572.9	568.1	567.8
70°	491.3	481.6	495.3	495.2	493.3
72.5°	412.1	411.7	428.7	428.7	429.9
75°	299.1	312.7	330.8	332.8	332.8
77.5°	199.7	223.7	243.7	244.4	244.1
80°	142.6	169.8	188.2	192.1	190.2
82.5°	96.7	125.3	140.7	144.6	142.6
85°	43.6	66.8	79.2	81.2	79.2
87.5°	13.0	27.8	33.8	34.3	31.2
90°	1.5	5.8	10.4	13.4	13.4
92.5°	13.4	60.8	105.5	45.3	38.3
95°	32.7	121.3	386.4	168.2	113.0
97.5°	54.1	134.0	592.4	460.9	323.7
100°	68.4	142.5	655.4	664.4	536.5
102.5°	82.6	150.9	672.1	821.7	708.9
105°	107.0	166.6	662.9	1009.3	949.7
107.5°	132.3	184.9	624.5	1106.1	1122.7
110°	150.1	198.1	596.0	1125.2	1196.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	165.6	211.2	567.4	1109.4	1216.6
115°	190.2	230.9	530.6	1055.6	1202.4
117.5°	213.4	252.4	507.1	979.3	1144.7
120°	228.9	266.7	496.4	928.2	1092.4
122.5°	242.0	279.7	489.3	876.9	1035.3
125°	261.6	297.9	480.1	808.8	954.2
127.5°	279.1	315.2	475.0	757.2	881.9
130°	289.8	324.7	472.6	724.8	836.7
132.5°	300.5	335.4	470.2	697.2	796.3
135°	315.1	350.0	466.7	658.8	743.1
137.5°	330.8	362.5	464.9	624.9	695.9
140°	340.3	370.9	463.7	603.4	667.3
142.5°	349.9	378.0	462.5	586.5	640.0
145°	364.1	390.3	460.7	559.8	601.9
147.5°	380.2	402.6	459.2	538.8	571.9
150°	390.9	409.8	459.2	526.7	552.9
152.5°	399.2	415.8	458.1	515.9	537.4
155°	411.7	426.2	457.8	502.7	517.2
157.5°	423.9	435.2	457.8	493.7	504.7
160°	431.0	441.2	457.8	487.7	496.4
162.5°	438.1	446.0	458.9	482.9	489.3
165°	445.9	451.7	459.2	478.6	480.1
167.5°	453.9	456.8	460.7	473.5	474.7
170°	456.3	459.2	460.7	471.1	471.1
172.5°	458.6	460.4	460.7	468.8	468.8
175°	462.2	463.7	460.7	466.6	465.2
177.5°	463.4	463.4	459.8	464.5	462.2
180°	462.2	462.2	462.2	462.2	462.2

(END OF REPORT)