

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: P562636

Luminaire Tested: **SQ4-PC3-050U-075D-840-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562636
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-075D-840-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

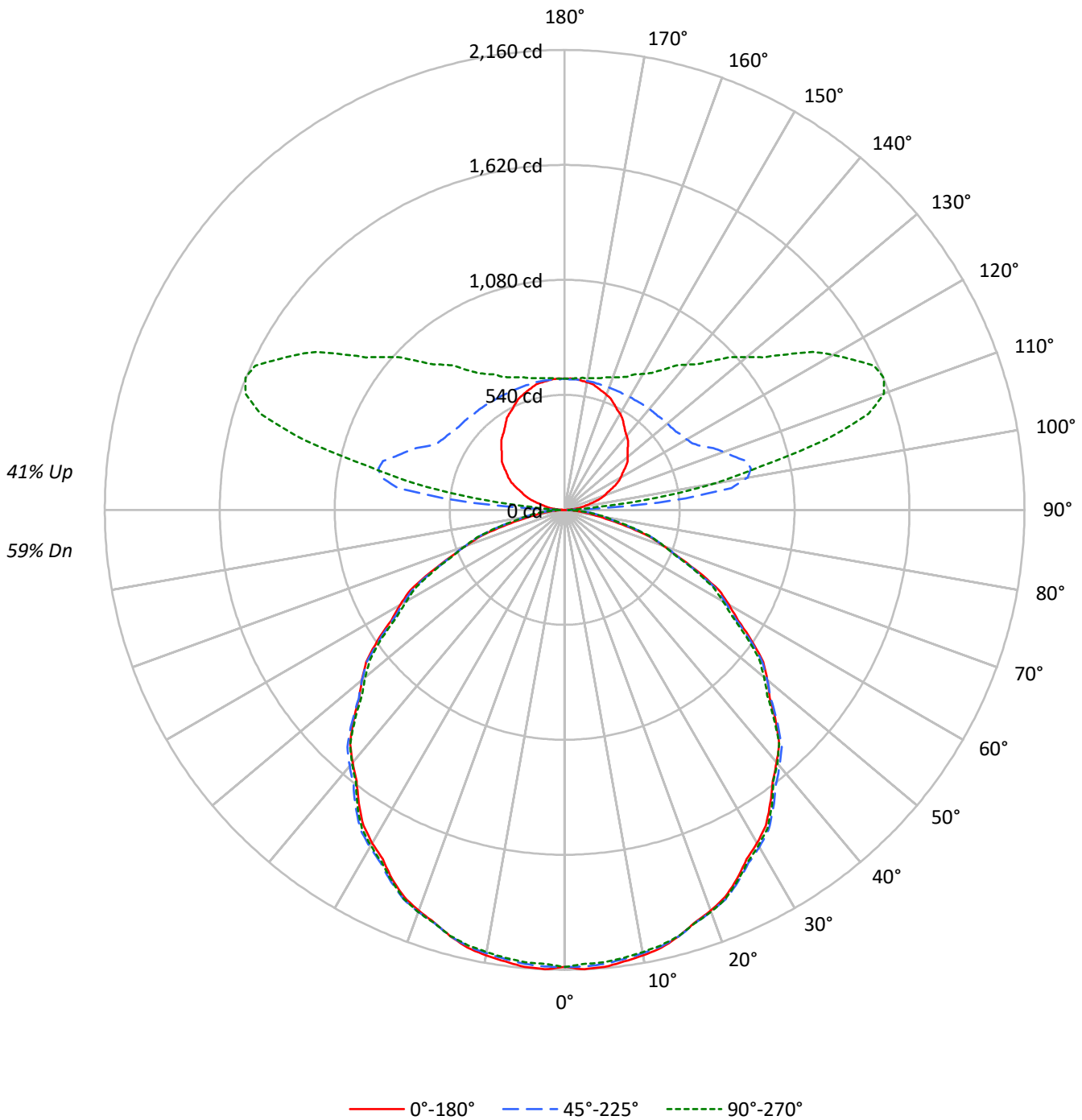
Lumens per Lamp: N/A
Luminaire Lumens: 9885.8 lumens
Efficiency: N/A
Efficacy: 126.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 78.1
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	109	109	109	109	102	102	102	102	88	88	88	76	76	76	65	65	65	59
1	100	96	92	88	93	89	86	83	78	75	73	67	65	64	57	56	55	50
2	91	83	77	72	85	78	73	68	68	64	60	59	56	53	50	48	46	42
3	83	73	66	60	77	69	62	57	60	55	51	52	48	45	45	42	39	36
4	76	65	57	51	71	61	54	48	53	48	43	46	42	38	40	37	34	30
5	70	58	50	43	65	54	47	41	48	42	37	42	37	33	36	32	29	26
6	64	52	44	38	60	49	41	36	43	37	33	38	33	29	33	29	26	23
7	59	47	39	33	55	44	37	32	39	33	29	34	29	26	30	26	23	20
8	55	43	35	29	51	40	33	28	36	30	25	31	26	23	27	23	21	18
9	51	39	31	26	48	37	30	25	33	27	23	29	24	21	25	21	18	16
10	48	36	28	23	45	34	27	22	30	24	21	27	22	19	23	20	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9904	9904	9904
5°	9979	9914	9877
10°	9955	9908	9880
15°	9902	9902	9893
20°	9837	9866	9866
25°	9744	9815	9784
30°	9625	9742	9699
35°	9482	9628	9561
40°	9326	9458	9362
45°	9156	9221	9079
50°	8917	8917	8774
55°	8634	8522	8394
60°	8217	8052	7923
65°	7595	7443	7378
70°	6649	6703	6676
75°	5351	5917	5953
80°	3802	5018	5069
85°	2313	4208	4208



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.2	2.1
10°-20°	583.1	5.9
20°-30°	883.0	8.9
30°-40°	1058.6	10.7
40°-50°	1079.4	10.9
50°-60°	942.3	9.5
60°-70°	674.6	6.8
70°-80°	347.5	3.5
80°-90°	90.2	0.9
90°-100°	295.8	3.0
100°-110°	803.7	8.1
110°-120°	826.3	8.4
120°-130°	660.7	6.7
130°-140°	519.1	5.3
140°-150°	398.0	4.0
150°-160°	286.2	2.9
160°-170°	175.1	1.8
170°-180°	59.0	0.6
0°-30°	1669.3	16.9
0°-40°	2727.9	27.6
0°-60°	4749.6	48.0
0°-90°	5861.9	59.3
90°-120°	1925.8	19.5
90°-150°	3503.7	35.4
90°-180°	4024.0	40.7
0°-180°	9885.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2147	2147	2147	2147	2147	
5°	2155	2134	2141	2135	2133	205
15°	2073	2056	2073	2073	2071	585
25°	1914	1901	1928	1922	1922	881
35°	1684	1680	1710	1698	1698	1053
45°	1404	1400	1413	1395	1392	1080
55°	1074	1060	1060	1044	1044	957
65°	696	680	682	676	676	688
75°	300	314	332	334	334	324
85°	44	67	80	82	80	59
90°	2	8	14	18	18	5
95°	44	162	515	224	151	46
105°	143	222	884	1346	1266	152
115°	254	308	707	1407	1603	250
125°	349	397	640	1078	1272	311
135°	420	467	622	878	991	325
145°	486	520	614	746	803	305
155°	549	568	610	670	690	253
165°	594	602	612	638	640	168
175°	616	618	614	622	620	59
180°	616	616	616	616	616	

TEST NUMBER: P562636

CATALOG NUMBER: SQ4-PC3-050U-075D-840-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2147.0	2147.0	2147.0	2147.0	2147.0
2.5°	2159.7	2141.0	2147.0	2142.0	2134.2
5°	2154.9	2133.5	2141.0	2135.0	2133.0
7.5°	2139.4	2118.0	2127.9	2123.9	2121.9
10°	2125.1	2103.7	2115.2	2111.1	2109.2
12.5°	2106.0	2086.2	2099.3	2095.3	2094.9
15°	2073.4	2055.9	2073.4	2073.4	2071.4
17.5°	2032.5	2016.5	2035.2	2036.4	2035.2
20°	2003.8	1986.3	2009.8	2007.9	2009.8
22.5°	1968.8	1954.5	1979.6	1974.5	1976.4
25°	1914.4	1900.8	1928.3	1922.3	1922.3
27.5°	1850.0	1840.2	1870.2	1863.9	1863.9
30°	1807.0	1797.3	1828.9	1820.9	1820.9
32.5°	1759.3	1752.7	1782.8	1773.2	1773.2
35°	1683.8	1679.9	1709.6	1697.7	1697.7
37.5°	1605.8	1602.4	1629.3	1614.9	1610.2
40°	1548.6	1546.7	1570.5	1554.6	1554.6
42.5°	1491.3	1489.4	1510.0	1490.9	1490.9
45°	1403.5	1399.6	1413.4	1395.4	1391.6
47.5°	1307.7	1303.8	1312.4	1292.9	1291.0
50°	1242.5	1238.6	1242.5	1224.5	1222.6
52.5°	1175.7	1168.7	1169.3	1151.4	1151.0
55°	1073.5	1059.9	1059.6	1043.7	1043.7
57.5°	965.3	947.5	949.0	935.5	933.5
60°	890.6	871.2	872.7	860.7	858.8
62.5°	817.4	794.9	799.5	786.0	785.6
65°	695.8	680.2	681.9	675.9	675.9
67.5°	578.9	564.5	574.9	570.1	569.7
70°	493.0	483.3	497.0	496.9	495.0
72.5°	413.5	413.1	430.2	430.2	431.4
75°	300.2	313.8	332.0	334.0	334.0
77.5°	200.4	224.5	244.5	245.3	244.9
80°	143.1	170.3	188.9	192.8	190.8
82.5°	97.0	125.8	141.1	145.1	143.1
85°	43.7	67.1	79.5	81.5	79.5
87.5°	13.1	28.3	34.6	35.3	32.2
90°	2.0	7.8	13.9	17.8	17.8
92.5°	17.8	81.0	140.7	60.4	51.1
95°	43.6	161.8	515.2	224.2	150.6
97.5°	72.1	178.7	789.9	614.5	431.6
100°	91.2	190.0	873.9	885.9	715.4
102.5°	110.2	201.2	896.1	1095.6	945.2
105°	142.7	222.1	883.8	1345.7	1266.3
107.5°	176.4	246.5	832.7	1474.8	1496.9
110°	200.1	264.1	794.6	1500.3	1595.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	220.8	281.6	756.6	1479.2	1622.2
115°	253.6	307.9	707.4	1407.4	1603.1
117.5°	284.6	336.5	676.1	1305.8	1526.3
120°	305.2	355.5	661.9	1237.6	1456.5
122.5°	322.6	373.0	652.4	1169.2	1380.4
125°	348.8	397.2	640.1	1078.4	1272.2
127.5°	372.2	420.2	633.3	1009.7	1175.9
130°	386.4	432.9	630.2	966.5	1115.7
132.5°	400.7	447.2	627.0	929.6	1061.8
135°	420.1	466.6	622.2	878.4	990.8
137.5°	441.1	483.4	619.9	833.2	927.8
140°	453.8	494.5	618.3	804.5	889.8
142.5°	466.5	504.1	616.7	782.0	853.3
145°	485.5	520.4	614.3	746.4	802.6
147.5°	506.9	536.7	612.3	718.4	762.5
150°	521.2	546.4	612.3	702.3	737.2
152.5°	532.3	554.4	610.7	687.9	716.6
155°	548.9	568.3	610.3	670.2	689.6
157.5°	565.2	580.3	610.3	658.2	673.0
160°	574.7	588.2	610.3	650.2	661.9
162.5°	584.2	594.6	611.9	643.8	652.4
165°	594.5	602.2	612.3	638.1	640.1
167.5°	605.2	609.1	614.3	631.4	632.9
170°	608.4	612.2	614.3	628.2	628.2
172.5°	611.5	613.9	614.3	625.0	625.0
175°	616.3	618.2	614.3	622.2	620.3
177.5°	617.9	617.9	613.1	619.4	616.3
180°	616.3	616.3	616.3	616.3	616.3

(END OF REPORT)